

# Active Recombinant Human CIRBP protein, His-tagged

**Cat. No.** CIRBP-27194TH    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human CIRBP protein(NP_001271.1)(Met1~Glu172), fused to N-terminal His Tag, was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>    | Met1~Glu172                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Form</b>             | 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Bio-activity</b>     | <p>CIRBP (Cold-inducible RNA-binding protein) is considered to play a protective role in the genotoxic stress response by stabilizing transcripts of genes involved in cell survival and act as a translational activator. Besides, ATXN1 (Ataxin-1) has been proven as an interactor of CIRBP. Thus a binding ELISA assay was conducted to detect the interaction of recombinant human CIRBP and recombinant human ATXN1. Briefly, CIRBP were diluted serially in PBS, with 0.01%BSA (pH 7.4). Duplicate samples of 100uL were then transferred to ATXN1-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-CIRBP mAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50μ stop solution to the wells and read at 450nm immediately. The binding</p> |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

activity of CIRBP and ATXN1 was shown in Figure 1, and this effect was in a dose dependent manner.

|                       |                                                                                                                                                                                                                                                                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Molecular Mass</b> | 22/27kDa as determined by SDS-PAGE reducing conditions.                                                                                                                                                                                                                                                                             |
| <b>Endotoxin</b>      | <1.0EU per 1g (determined by the LAL method)                                                                                                                                                                                                                                                                                        |
| <b>Purity</b>         | > 95%                                                                                                                                                                                                                                                                                                                               |
| <b>Applications</b>   | Positive Control; Immunogen; SDS-PAGE; WB.                                                                                                                                                                                                                                                                                          |
| <b>Stability</b>      | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles.<br>Store at 2-8°C for one month.<br>Aliquot and store at -80°C for 12 months.                                                                                                                                                                                                                    |
| <b>Concentration</b>  | 400g/mL                                                                                                                                                                                                                                                                                                                             |
| <b>Reconstitution</b> | Reconstitute in ddH <sub>2</sub> O to a concentration of 0.1-1.0 mg/mL. Do not vortex.                                                                                                                                                                                                                                              |

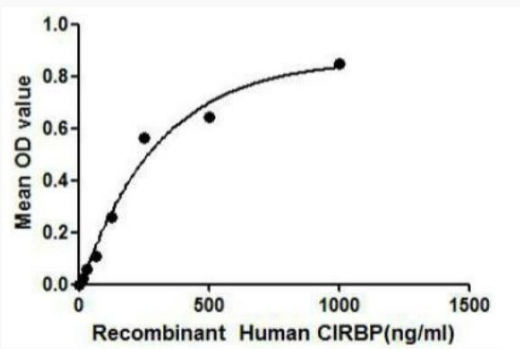
## GENE INFORMATION

|                        |                                                           |
|------------------------|-----------------------------------------------------------|
| <b>Gene Name</b>       | CIRBP cold inducible RNA binding protein [ Homo sapiens ] |
| <b>Official Symbol</b> | CIRBP                                                     |
| <b>Synonyms</b>        | CIRP; A18HNRNP                                            |

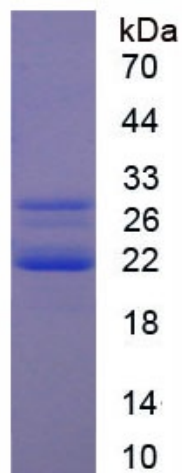
 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

| Gene ID                         | 1153                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                 |               |   |      |     |      |     |      |     |      |     |      |     |      |      |      |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------|---|------|-----|------|-----|------|-----|------|-----|------|-----|------|------|------|
| mRNA Refseq                     | NM_001280.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                 |               |   |      |     |      |     |      |     |      |     |      |     |      |      |      |
| Protein Refseq                  | NP_001271.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                 |               |   |      |     |      |     |      |     |      |     |      |     |      |      |      |
| MIM                             | 602649                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                 |               |   |      |     |      |     |      |     |      |     |      |     |      |      |      |
| UniProt ID                      | Q14011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                 |               |   |      |     |      |     |      |     |      |     |      |     |      |      |      |
| Bioactivity                     |  <table border="1"> <caption>Approximate data points from the Bioactivity graph</caption> <thead> <tr> <th>Recombinant Human CIRBP (ng/ml)</th> <th>Mean OD value</th> </tr> </thead> <tbody> <tr><td>0</td><td>0.00</td></tr> <tr><td>100</td><td>0.10</td></tr> <tr><td>200</td><td>0.25</td></tr> <tr><td>300</td><td>0.40</td></tr> <tr><td>400</td><td>0.55</td></tr> <tr><td>500</td><td>0.65</td></tr> <tr><td>1000</td><td>0.85</td></tr> </tbody> </table> | Recombinant Human CIRBP (ng/ml) | Mean OD value | 0 | 0.00 | 100 | 0.10 | 200 | 0.25 | 300 | 0.40 | 400 | 0.55 | 500 | 0.65 | 1000 | 0.85 |
| Recombinant Human CIRBP (ng/ml) | Mean OD value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                 |               |   |      |     |      |     |      |     |      |     |      |     |      |      |      |
| 0                               | 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                 |               |   |      |     |      |     |      |     |      |     |      |     |      |      |      |
| 100                             | 0.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                 |               |   |      |     |      |     |      |     |      |     |      |     |      |      |      |
| 200                             | 0.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                 |               |   |      |     |      |     |      |     |      |     |      |     |      |      |      |
| 300                             | 0.40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                 |               |   |      |     |      |     |      |     |      |     |      |     |      |      |      |
| 400                             | 0.55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                 |               |   |      |     |      |     |      |     |      |     |      |     |      |      |      |
| 500                             | 0.65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                 |               |   |      |     |      |     |      |     |      |     |      |     |      |      |      |
| 1000                            | 0.85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                 |               |   |      |     |      |     |      |     |      |     |      |     |      |      |      |

## SDS-PAGE



Tel: 1-631-559-9269 1-516-512-3133

Email: [info@creative-biomart.com](mailto:info@creative-biomart.com) Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA