

## Recombinant Rat Nucb2 Protein, His&GST-tagged

**Cat. No.** Nucb2-1873R    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| <b>Product Overview</b> | Recombinant Rat Nucb2 Protein (Pro26-Leu106) with N-His&GST tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Species</b>          | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>ProteinLength</b>    | Pro26-Leu106                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>      | Enables G-protein alpha-subunit binding activity; guanyl-nucleotide exchange factor activity; and tumor necrosis factor receptor binding activity. Involved in several processes, including negative regulation of cell communication; positive regulation of testosterone secretion; and response to melanocyte-stimulating hormone. Located in Golgi medial cisterna and extracellular space. Biomarker of obesity and type 2 diabetes mellitus. Orthologous to human NUCB2 (nucleobindin 2). |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 39.5 kDa<br>Accurate Molecular Mass: 39 kDa                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Purity</b>           | > 97%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Applications</b>     | Cell culture; Activity Assays.                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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 centigrade 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. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.                                                                                                                                                                                                                 |
| <b>Storage Buffer</b> | 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                          |
| <b>Reconstitution</b> | Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.                                                                                                                                                                                                                                            |

## GENE INFORMATION

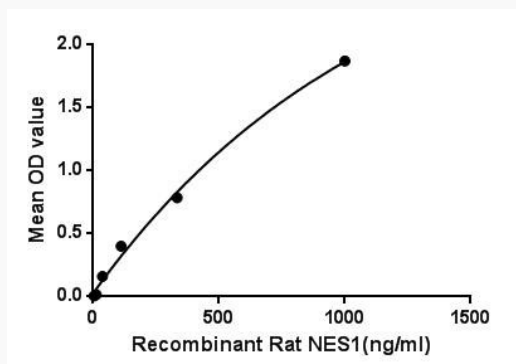
|                        |                                                                                                                  |
|------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Nucb2 nucleobindin 2 [ <i>Rattus norvegicus</i> (Norway rat) ]                                                   |
| <b>Official Symbol</b> | Nucb2                                                                                                            |
| <b>Synonyms</b>        | Nucb2; nucleobindin 2; p54; Nefa; nucleobindin-2; DNA-binding protein NEFA; nesfatin-1; pronefastin; prenesfatin |
| <b>Gene ID</b>         | 59295                                                                                                            |
| <b>mRNA Refseq</b>     | NM_021663                                                                                                        |
| <b>Protein Refseq</b>  | NP_067695                                                                                                        |
| <b>UniProt ID</b>      | Q9JI85                                                                                                           |

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## Bioactivity



The binding activity of NES1 with GADD45b.

