

# Recombinant Rat Ceacam1 Protein, His-tagged

**Cat. No.** Ceacam1-731R    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>Product Overview</b> | Recombinant Rat Ceacam1 Protein (Asp209-Leu408+GRNT) with His tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>    | Asp209-Leu408+GRNT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>      | Enables several functions, including bile acid transmembrane transporter activity; calmodulin binding activity; and protein homodimerization activity. Involved in several processes, including homophilic cell adhesion via plasma membrane adhesion molecules; insulin catabolic process; and regulation of signal transduction. Acts upstream of or within positive regulation of MAP kinase activity. Located in several cellular components, including adherens junction; basal plasma membrane; and lateral plasma membrane. Orthologous to several human genes including CEACAM1 (CEA cell adhesion molecule 1). |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 26.1 kDa; Accurate Molecular Mass: 26 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Purity</b>           | > 95%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Applications</b>     | Positive Control; Immunogen; SDS-PAGE; WB.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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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>       | Ceacam1 carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein) [ <i>Rattus norvegicus</i> ]                                                                                                                                                                                                                                                                                                                                            |
| <b>Official Symbol</b> | Ceacam1                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Synonyms</b>        | CEACAM1; carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein); carcinoembryonic antigen-related cell adhesion molecule 1; GP110; pp120; C-CAM 105; ecto-ATPase; osteocalcin; cell-CAM 105; pp120/ecto-ATPase; ATP-dependent taurocolate-carrier protein; bone gamma-carboxyglutamic acid (Gla) protein; CEA-related cell adhesion molecule 1 (bone gamma-carboxyglutamic acid (Gla) protein) (osteocalcin); Bgp; BGPR; CD66a; Ccam1; |
| <b>Gene ID</b>         | 81613                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>mRNA Refseq</b>     | NM_001033860                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

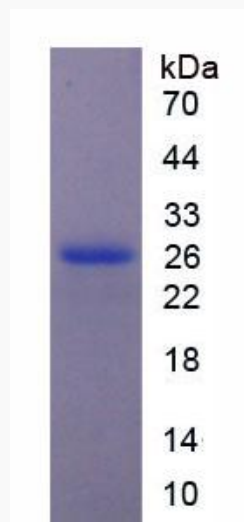
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Protein Refseq NP\_001029032

UniProt ID P16573



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