

## Recombinant Rat Cd44 Protein, His-tagged

**Cat. No.** Cd44-1270R    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| <b>Product Overview</b> | Recombinant Rat Cd44 Protein (Gln24-Val182) with N-His tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>ProteinLength</b>    | Gln24-Val182                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | Enables epidermal growth factor receptor binding activity; phosphoprotein binding activity; and protein kinase binding activity. Involved in several processes, including blood vessel maturation; macrophage fusion; and positive regulation of neutrophil apoptotic process. Located in apical plasma membrane; basolateral plasma membrane; and nucleus. Part of protein-containing complex. Biomarker of borna disease and cholestasis. Human ortholog(s) of this gene implicated in breast carcinoma (multiple); carcinoma (multiple); and prostate cancer. Orthologous to human CD44 (CD44 molecule (Indian blood group)). |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 21.4 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Purity</b>           | > 97%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <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>   | PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                                                            |
| <b>Reconstitution</b>   | Reconstitute in PBS or others.                                                                                                                                                                                                                                                                                                                     |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                    |
| <b>Gene Name</b>        | Cd44 CD44 molecule (Indian blood group) [ <i>Rattus norvegicus</i> (Norway rat) ]                                                                                                                                                                                                                                                                  |
| <b>Official Symbol</b>  | Cd44                                                                                                                                                                                                                                                                                                                                               |
| <b>Synonyms</b>         | Cd44; CD44 molecule (Indian blood group); CD44 antigen; CD44A; META; RHAMM; Cell surface glycoprotein CD44 (hyaluronate binding protein); ECMR-III; GP90 lymphocyte homing/adhesion receptor; HUTCH-I; PGP-1; PGP-I; extracellular matrix receptor III; hermes antigen; hyaluronate receptor; phagocytic glycoprotein 1; phagocytic glycoprotein I |
| <b>Gene ID</b>          | 25406                                                                                                                                                                                                                                                                                                                                              |
| <b>mRNA Refseq</b>      | XM_006234631                                                                                                                                                                                                                                                                                                                                       |
| <b>Protein Refseq</b>   | XP_006234693                                                                                                                                                                                                                                                                                                                                       |
| <b>UniProt ID</b>       | P26051                                                                                                                                                                                                                                                                                                                                             |

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