

## Active Recombinant Rat EFNB2 Protein, Fc-tagged

**Cat. No.** EFNB2-1078R    **Lot. No.** (See product label)

### SPECIFICATION

|                             |                                                                                                                                                                                                                                                                             |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>     | Recombinant rat EFNB2 (NP_001100798.1) extracellular domain (Met 1-Ala 229) was fused with the Fc region of human IgG1 at the C-terminus.                                                                                                                                   |
| <b>Species</b>              | Rat                                                                                                                                                                                                                                                                         |
| <b>Source</b>               | HEK293                                                                                                                                                                                                                                                                      |
| <b>ProteinLength</b>        | 1-229 a.a.                                                                                                                                                                                                                                                                  |
| <b>Predicted N Terminal</b> | Ser 28                                                                                                                                                                                                                                                                      |
| <b>Form</b>                 | Lyophilized from sterile PBS, pH 7.4, 5%~8% trehalose and mannitol.                                                                                                                                                                                                         |
| <b>Bio-activity</b>         | 1. Measured by its binding ability in a functional ELISA. 2. Immobilized mouse EPHB4-His at 10 µg/mL (100 µl/well) can bind Rat EphrinB2-Fc, The EC50 of Rat EphrinB2-Fc is 10 ng/mL.                                                                                       |
| <b>Molecular Mass</b>       | The recombinant rat EFNB2/Fc is a disulfide-linked homodimer. The reduced monomer comprises 443 amino acids and predicts a molecular mass of 49 kDa. The apparent molecular mass of the rat EFNB2/Fc monomer is approximately 55 kDa in SDS-PAGE under reducing conditions. |
| <b>Endotoxin</b>            | < 1.0 EU per µg of the protein as determined by the LAL method.                                                                                                                                                                                                             |
| <b>Purity</b>               | >90 % as determined by SDS-PAGE.                                                                                                                                                                                                                                            |

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|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>      | Samples are stable for up to twelve months from date of receipt at -70°C.                                                                                                      |
| <b>Storage</b>        | Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.                      |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents. |

## GENE INFORMATION

|                        |                                                                                 |
|------------------------|---------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Efnb2 ephrin B2 [ Rattus norvegicus ]                                           |
| <b>Official Symbol</b> | EFNB2                                                                           |
| <b>Synonyms</b>        | EFNB2; ephrin B2;                                                               |
| <b>Gene ID</b>         | 306636                                                                          |
| <b>mRNA Refseq</b>     | NM_001107328                                                                    |
| <b>Protein Refseq</b>  | NP_001100798                                                                    |
| <b>MIM</b>             |                                                                                 |
| <b>UniProt ID</b>      |                                                                                 |
| <b>Pathway</b>         | Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem; |
| <b>Function</b>        | ephrin receptor binding; ephrin receptor binding; receptor binding;             |

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