

Active Recombinant Rat Eph Receptor B1, Fc-tagged

Cat. No. Ephb1-468R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Ephb1 protein was expressed in Murine myeloma cell line with the Fc part of human IgG1.Met18-Gln538.
Species	Rat
Source	Mammalian Cells
Protein Length	18-538 a.a.
Description	Ephb1, also known as Elk, Cek6, Net, and Hek6, is a member of the Eph receptor family which binds members of the ephrin ligand family. There are two classes of receptors, designated A and B. Both the A and B class receptors have an extracellular region consisting of a globular domain, a cysteine-rich domain, and two fibronectin type III domains. This is followed by the transmembrane region and the cytoplasmic region.
Form	Lyophilized from a 0.2µm filtered solution in Tris.
N-terminal Sequence	Met18
Molecular Weight	85 kDa
Activity	Measured by its binding ability in a functional ELISA. Immobilized rrEphb1/Fc Chimera at 2 µg/mL (100 µL/well) can bind rmEphrinb1/Fc Chimera with a linear range of 0.31-20 ng/mL. Optimal dilutions should be determined by each laboratory for each application.

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstitute at 100 µg/mL in sterile PBS
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	Ephb1 Eph receptor B1 [Rattus norvegicus]
Official Symbol	Ephb1
Synonyms	Ephb1; Ephreceptor B1; Erk; elk; Ephb2; ephrin type-B receptor 1; ELK-related protein tyrosine kinase; tyrosine-protein kinase receptor EPH-2; Eph receptor B2 (ELK-related protein tyrosine kinase); EC 2.7.10.1; Epth2
Gene ID	24338
mRNA Refseq	NM_001104528
Protein Refseq	NP_001097998
UniProt ID	P09759
Chromosome Location	8q32

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Pathway	Axon guidance
Function	ATP binding; axon guidance receptor activity; ephrin receptor activity; nucleotide binding; protein tyrosine kinase activity; receptor activity; transmembrane-ephrin receptor activity; transferase activity
PDB rendering based on 2djs.	