

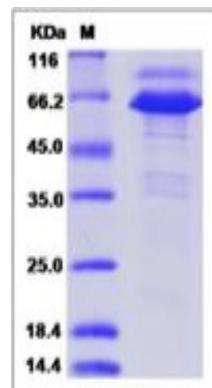
Ephb6

Recombinant Mouse Ephrin Type-B Receptor 6 (His Tag)

Catalog No.	CRM740A-His CRM740B-His	Quantity:	200 µg 500 µg
Alternate Names:	Ephrin type-B receptor 6, MEP, Tyrosine-protein kinase-defective receptor EPH-6		
Description:	Ephrins are divided into the ephrin-A (EFNA) class and the ephrin-B (EFNB) class based on their structures and sequence relationships. Ephrin receptors make up the largest subgroup of the receptor tyrosine kinase (RTK) family. EphB6 is an unusual Eph receptor, lacking catalytic capacity due to alterations in its kinase domain. EphB6 can both positively and negatively regulate cell adhesion and migration, and suggest that tyrosine phosphorylation of the receptor by an Src family kinase acts as the molecular switch for the functional transition. Ephrin-B2 may be a physiological ligand for the EphB6 receptor. Increased metastatic activity is associated with reduced EphB6 receptor expression in several tumor types, including breast cancer. EphB6 has potential to act as a suppressor of cancer invasiveness through c-Cbl-dependent signaling, morphologic changes, and cell attachment and indicate that EphB6 may represent a useful prognostic marker and a promising target for therapeutic approaches.		
UniProt ID:	O08644-1		
Protein Construction:	A DNA sequence encoding the mouse EPHB6 (Met1-Ser587) was expressed with a C-terminal polyhistidine tag.		
Source:	HEK293 Cells		
Formulation:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.		
Molecular Weight:	The rmEPHB6 consists of 566 aa with a predicted MW of 61.1 kDa and migrates at 91 kDa and 65 kDa in SDS-PAGE under reducing conditions.		
Purity:	> 85 % as determined by SDS-PAGE.		
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method		
Biological Activity:	1. Immobilized mouse EPHB6-His at 10 µg/ml (100 µl/well) can bind mouse EFNB1-Fc. The EC50 of mouse EFNB1-Fc is 0.12-0.28 µg/ml. 2. Immobilized mouse EPHB6-His at 10 µg/ml (100 µl/well) can bind mouse EFNB2-Fc. The EC50 of mouse EFNB2-Fc is 0.04-0.08 µg/ml.		
Predicted N-terminal:	Leu 33		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution.		
Storage & Stability:	Stable for up to 1 year from date of receipt at -20°C to -80°C After reconstitution, store working aliquots at -20°C to -80°C. Avoid repeated freeze-thaw cycles.		



SDS-PAGE



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Cell Sciences®
65 Parker Street
Unit 11
Newburyport, MA 01950

Toll Free: 888-769-1246
Phone: 978-572-1070
Fax: 978-992-0298

E-mail: info@cellsciences.com
Website: www.cellsciences.com