Recombinant Protein Technical Manual

Recombinant Human EphB1/EPHT2 Protein (aa 564-984, His Tag)(Active)

RPES2919

Product Data:

Product SKU: RPES2919

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P54762

Protein Information:

Molecular Mass:	48.8 kDa
AP Molecular Mass:	49 kDa
Tag:	C-His
Bio-activity:	Immobilized Human EphB1-His at 10µg/ml(100 µl/well) can bind Mouse EFNB2-Fc(Cat: PKSM041012). The ED50 of Human EphB1-His is 53.1 ug/ml .
Purity:	> 95% as determined by reducing SDS-PAGE.
Endotoxin:	< 1.0 EU per µg as determined by the LAL method.
Storage:	Lyophilized protein should be stored at < -20℃, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping:	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation:	Lyophilized from a 0.2 µm filtered solution of 20mM Tris,150mM NaCl,pH8.0.
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	Functional ELISA
Synonyms:	Ephrin Type-B Receptor 1; ELK; EPH Tyrosine Kinase 2; EPH-Like Kinase 6; EK6; hEK6; Neuronally-Expressed EPH; Related Tyrosine Kinase; NET; Tyrosine-Protein Kinase Receptor EPH-2; EPHB1; ELK; EPHT2; HEK6

Immunogen Information:

Sequence: Ser564-Ala984

Background:

Ephrin Type-B Receptor 1 (EPHB1) is a single-pass type I membrane protein that belongs to the Ephrin-B family of receptor tyrosine kinases that is involved in embryonic nervous and vascular system development. EPHB1/EPHT2 contains two fibronectin type-III domains, one protein kinase domain and one SAM (sterile α motif) domain. EPHB1 could stimulate fibroblast motility on extracellular matrix in a kinase-dependent manner, which also correlated with its association with Grb7, an adaptor molecule implicated in the regulation of cell migration. It binds to ephrin-B1, ephrin-B2 and ephrin-B3. EPHB1 plays an important roles in diverse biological processes including nervous system development, angiogenesis, and neural synapsis formation and maturation and may be involved in cell-cell interactions in the nervous system.