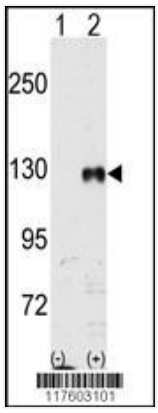
EphB1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	EphB1, Polyclonal Antibody
Full Product Name	EphB1 (Ephrin Type-B Receptor 1, Tyrosine-protein Kinase Receptor EPH-2, NET, EPH-like Kinase 6, EK6, hEK6, HEK-6, EPHT2) (MaxLight 550)
Product Gene Name	anti-EphB1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human EphB1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	109,885 Da
Chromosome Location	Chromosome: 3; NC_000003.11 (134514099..134979309). Location: 3q21-q23
OMIM	600600
3D Structure	ModBase 3D Structure for P54762
Immunogen	His tag recombinant protein of human EphB1.
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-EphB1 antibody	Antibodies; Tyrosine Kinases
Applications Tested/Suitable for anti-EphB1 antibody	Western Blot (WB), FLISA
Application Notes for anti-EphB1 antibody	WB: 1:100-1:500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-EphB1 antibody	MBS6474395 is an antibody targeting EphB1. Also known as EphB1 (Ephrin Type-B Receptor 1, Tyrosine-protein Kinase Receptor EPH-2, NET, EPH-like Kinase 6, EK6, hEK6, HEK-6, EPHT2) (MaxLight 550). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-EphB1 antibody	1. Prevost, N., et al., Proc. Natl. Acad. Sci. USA 99(14):9219-9224 (2002). 2. Wilkinson, D.G., Nat Rev Neurosci 2(3):155-164 (2001). 3. Xu, Q., et al., Philos. Trans. R. Soc. Lond., B, Biol. Sci. 355(1399):993-1002 (2000). 4. Holder, N., et al., Development 126(10):2033-2044 (1999). 5. Stein, E., et al., J. Biol. Chem. 273(3):1303-1308 (1998).

Other Notes	Small volumes of anti-EphB1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-EphB1 antibody
Western blot analysis of EphB1 (arrow) using rabbit polyclonal EphB1 Antibody 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the EphB1 gene (Lane 2) (Origene Technologies).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EphB1. It may not necessarily be applicable to this product.

NCBI GI #	4758284
NCBI GeneID	2047
NCBI Accession #	NP_004432.1
UniProt Primary Accession #	P54762
UniProt Secondary Accession #	O43569; O95142; O95143; Q0VG87; A8K593
UniProt Related Accession #	P54762
GenBank Nucleotide #	NM_004441.4
NCBI Official Full Name	ephrin type-B receptor 1
NCBI Official Synonym Full Names	EPH receptor B1
NCBI Official Symbol	EPHB1
NCBI Official Synonym Symbols	ELK; NET; Hek6; EPHT2
UniProt Protein Name	Ephrin type-B receptor 1
UniProt Synonym Protein Names	ELK; EPH tyrosine kinase 2; EPH-like kinase 6; EK6; hEK6; Neuronally-expressed EPH-related tyrosine kinase; NET; Tyrosine-protein kinase receptor EPH-2
Protein Family	Ephrin type-B receptor
UniProt Gene Name	EPHB1
UniProt Synonym Gene Names	ELK; EPHT2; HEK6; NET; EK6; hEK6; NET
UniProt Entry Name	EPHB1_HUMAN
NCBI Protein Information	ephrin type-B receptor 1; EK6; EPH-like kinase 6; eph tyrosine kinase 2; soluble EPHB1 variant 1; tyrosine-protein kinase receptor EPH-2; neuronally-expressed EPH-related tyrosine kinase

NCBI Summary for EphB1	Ephrin receptors and their ligands, the ephrins, mediate numerous developmental processes, particularly in the nervous system. Based on their structures and sequence relationships, ephrins are divided into the ephrin-A (EFNA) class, which are anchored to the membrane by a glycosylphosphatidylinositol linkage, and the ephrin-B (EFNB) class, which are transmembrane proteins. The Eph family of receptors are divided into 2 groups based on the similarity of their extracellular domain sequences and their affinities for binding ephrin-A and ephrin-B ligands. Ephrin receptors make up the largest subgroup of the receptor tyrosine kinase (RTK) family. The protein encoded by this gene is a receptor for ephrin-B family members. [provided by RefSeq, Jul 2008]
UniProt Comments for EphB1	EphB1: a receptor tyrosine kinase of the Eph family. Receptor for members of the ephrin-B family: ephrin-B1, -B2 and -B3. The Eph receptor tyrosine kinase family, the largest in the tyrosine kinase group, has fourteen members. They bind membrane-anchored ligands, ephrins, at sites of cell-cell contact, regulating the repulsion and adhesion of cells that underlie the establishment, maintenance, and remodeling of patterns of cellular organization. Eph signals are particularly important in regulating cell adhesion and cell migration during development, axon guidance, homeostasis and disease. EphA receptors bind to GPI-anchored ephrin-A ligands, while EphB receptors bind to ephrin-B proteins that have a transmembrane and cytoplasmic domain. Interactions between EphB receptor kinases and ephrin-B proteins transduce signals bidirectionally, signaling to both interacting cell types. Eph receptors and ephrins also regulate the adhesion of endothelial cells and are required for the remodeling of blood vessels. The ligand-activated form of EphB1 interacts with GRB2, GRB10 and NCK through their respective SH2 domains. Four alternatively spliced isoforms are known. Protein type: Protein kinase, tyrosine (receptor); Kinase, protein; Protein kinase, TK; Membrane protein, integral; EC 2.7.10.1; TK group; Eph family Chromosomal Location of Human Ortholog: 3q21-q23 Cellular Component: early endosome membrane; integral to plasma membrane; axon; dendrite; extracellular region; plasma membrane; cytosol; lipid raft Molecular Function: protein binding; transmembrane-ephrin receptor activity; axon guidance receptor activity; ATP binding Biological Process: positive regulation of synaptogenesis; axon guidance; camera-type eye morphogenesis; peptidyl-tyrosine phosphorylation; neurogenesis; establishment of cell polarity; protein amino acid autophosphorylation; ephrin receptor signaling pathway; central nervous system projection neuron axonogenesis; angiogenesis; optic nerve morphogenesis; detection of temperature stimulus involved in sensory perception of pain; regulation of JNK cascade; cell-substrate adhesion; retinal ganglion cell axon guidance
Research Articles on EphB1	**1.** EphB1 stimulation triggered approximately 50% serine-threonine PTEN dephosphorylation and PTEN-Cbl complex disruption, a process requiring PTEN protein phosphatase activity.
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