

Rabbit Ephrin Receptor B1 Polyclonal Antibody | anti-Ephb1 antibody

Ephrin Receptor B1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA75865	Rabbit	Human, Mouse, Rat	Western Blot, Immunoprecipitation, Immunohistochemistry, ELISA

PRODUCT SYNONYMS

Ephrin Receptor B1; Polyclonal Antibody; Ephrin Receptor B1 Antibody; Cek 6; EK6; ELK; Elkh; Eph tyrosine kinase 2; EPH-like kinase 6; EPH2; EphB1; Ephrin receptor Eph B1 precursor; Ephrin type B receptor 1; EPHT2; HEK 6; NET; Neuronally expressed EPH related tyrosine kinase; Tyrosine-protein kinase receptor EPH-2 antibody; anti-Ephb1 antibody

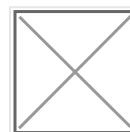
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Form/Format	Affinity Purified
Concentration	0.58 ug/ul in antibody stabilization buffer (varies by lot)
Sequence Length	984
Applicable Applications for anti-Ephb1 antibody	WB (Western Blot), IP (Immunoprecipitation), IHC (Immunohistochemistry), ELISA
Immunogen	Synthetic peptide taken within amino acid region 850-900 on mouse Eph BR1 protein.
Expression	Expressed in neural stem and progenitor cells in the dentate gyrus.
Molecular Function	ATP-binding, Nucleotide-binding
Structure	Heterotetramer upon binding of the ligand. The heterotetramer is composed of an ephrin dimer and a receptor dimer. Oligomerization is probably required to induce biological responses. Interacts with EPHB6; transphosphorylates EPHB6 to form an active signaling complex. Interacts with PICK1. Interacts (through Tyr-594) with NCK1 (via SH2 domain); activates the JUN cascade to regulate cell adhesion. Then ligand-activated form interacts (through Tyr-928) with GRB7 and GRB10 (via SH2 domains). The ligand-activated form interacts (through Tyr-928) with GRB7 and GRB10 (via SH2 domain). Interacts with GRB2, SHC1 and SRC; activates the MAPK/ERK cascade to regulate cell migration. Interacts with CBL; regulates receptor degradation through ubiquitination. Interacts with ACP1.
Subcellular Location	Cell membrane; Single-pass type I membrane protein; Early endosome membrane; Dendrite
Preparation and Storage	-20• degree C for long term storage

IMAGES



IHC (Immunohiostchemistry)



IHC (Immunohistochemistry)

ADDITIONAL INFORMATION

Related Product Information for anti-Ephb1 antibody	Affinity Purified Ephrin type-B receptor 1 isoform 1 Antibody Receptor tyrosine kinase which binds promiscuously transmembrane ephrin-B family ligands residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. The signaling pathway downstream of the receptor is referred to as forward signaling while the signaling pathway downstream of the ephrin ligand is referred to as reverse signaling. Cognate/functional ephrin ligands for this receptor include EFNB1, EFNB2 and EFNB3. During nervous system development, regulates retinal axon guidance redirecting ipsilaterally ventrotemporal retinal ganglion cells axons at the optic chiasm midline. This probably requires repulsive interaction with EFNB2. In the adult nervous system together with EFNB3, regulates chemotaxis, proliferation and polarity of the hippocampus neural progenitors. In addition to its role in axon guidance plays also an important redundant role with other ephrin-B receptors in development and maturation of dendritic spines and synapse formation. May also regulate angiogenesis. More generally, may play a role in targeted cell migration and adhesion. Upon activation by EFNB1 and probably other ephrin-B ligands activates the MAPK/ERK and the JNK signaling cascades to regulate cell migration and adhesion respectively.
Product Categories/Family for anti-Ephb1 antibody	Primary Antibodies; Protein Kinases; Tyrosine Kinases; Ephrin Receptor B1 Antibody

NCBI AND UNIPROT INFORMATION

NCBI GI #	269973846
NCBI GeneID	270190
NCBI Accession #	NP_775623
NCBI GenBank Nucleotide #	NM_173447.3
UniProt Accession #	Q8CBF3; Q3UY27; Q6PG23; Q8CBE2; B1B1C2
Molecular Weight	105,294 Da
NCBI Official Full Name	ephrin type-B receptor 1 isoform 1
NCBI Official Synonym Full Names	Eph receptor B1
NCBI Official Symbol	Ephb1
NCBI Official Synonym Symbols	Elk; Net; Cek6; Elkh; Hek6; AW488255; 9330129L11; C130099E04Rik; ENSMUSG00000074119
NCBI Protein Information	ephrin type-B receptor 1
UniProt Protein Name	Ephrin type-B receptor 1
UniProt Gene Name	Ephb1
UniProt Entry Name	EPHB1_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/ephrin-receptor-b1-antibody-western-blot-immunoprecipitation-immunohistochemistry-elisa/75865>