

Rabbit EpHB1/3/4 Polyclonal Antibody | anti-EpHB1/3/4 antibody

Phospho-EpHB1/3/4 (Tyr778/Tyr792/Tyr774) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329770	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%)	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

EpHB1/3/4; Polyclonal Antibody; Phospho-EpHB1/3/4 (Tyr778/Tyr792/Tyr774) Antibody; Cek 6; EK6; ELK; Elkh; Ephreceptor B1; EpHtyrosine kinase 2; EPH-like kinase 6; Ephb1; EPHB1_HUMAN; Ephrin type B receptor 1; Ephrin type-B receptor 1; EPHT2; HEK 6; HEK6; NET; Neuronally-expressed EPH-related tyrosine kinase; soluble EPHB1 variant 1; Tyrosine protein kinase receptor Eph2; Tyrosine-protein kinase receptor EPH-2; Cek10; EK2; Embryonic kinase 2; EphLike Tyrosine Kinase 2; Ephreceptor B3; EPH-like kinase 2; ephb3; EPHB3_HUMAN; Ephrin receptor EphB3; Ephrin type B receptor 3; Ephrin type-B receptor 3; ETK2; hEK2; Human Embryo Kinase 2; Mdk5; Sek4; TYRO6; Tyrosine protein kinase receptor HEK2; Tyrosine protein kinase TYRO6; Tyrosine-protein kinase TYRO6; Ephb4; EPHB4_HUMAN; Ephrin receptor EphB4; Ephrin type-B receptor 4; Hepatoma Transmembrane Kinase; HTK; MYK 1; MYK1; TYRO 11; TYRO11; Tyrosine-protein kinase receptor HTK; Tyrosine-protein kinase TYRO11; anti-EpHB1/3/4 antibody

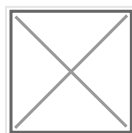
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-EpHB1/3/4 (Tyr778/Tyr792/Tyr774) Antibody detects endogenous levels of EpHB1/3/4 only when phosphorylated at Tyr778/792/774. Tissue Specificity: Abundantly expressed in placenta but also detected in kidney, liver, lung, pancreas, skeletal muscle and heart. Expressed in primitive and myeloid, but not lymphoid, hematopoietic cells. Also observed in cell lines derived from liver, breast, colon, lung, melanocyte and cervix.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-EpHB1/3/4 antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human EpHB1/3/4 around the phosphorylation site of Tyr778/792/774.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Phosphorylated; autophosphorylation is stimulated by EFNB2.
Subunit 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 (By similarity). Interacts with RASA1; the interaction depends on EPHB4 tyrosine-phosphorylation.
Similarity	Belongs to the protein kinase superfamily. Tyr protein kinase family. Ephrin receptor subfamily.
Subcellular Location	Cell membrane>Single-pass type I membrane protein.

Preparation and Storage

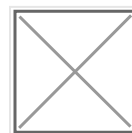
Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



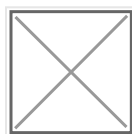
IHC (Immunohistochemistry)

At 1/200 staining Human liver cancer tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



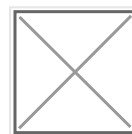
IHC (Immunohistochemistry)

At 1/200 staining Mouse brain tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)

Staining Rat lung tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of EPH B1/3/4 (Phospho-Tyr778/792/774) using 293 whole cell lysates. -/+ means absence or presence of N peptide/non-phospho peptide and P peptide(phospho peptide).

ADDITIONAL INFORMATION

Related Product Information for anti-EPHB1/3/4 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. Together with its cognate ligand/functional ligand EFNB2 it is involved in the regulation of cell adhesion and migration, and plays a central role in heart morphogenesis, angiogenesis and blood vessel remodeling and permeability. EPHB4-mediated forward signaling controls cellular repulsion and segregation from EFNB2-expressing cells.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4758284
NCBI GeneID	2047
NCBI Accession #	NP_004432.1
NCBI GenBank Nucleotide #	NM_004441.4
UniProt Accession #	P54762 ; P54753 ; P54760
Molecular Weight	109,885 Da
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
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
UniProt Protein Name	Ephrin type-B receptor 1
UniProt Gene Name	EPHB1
UniProt Synonym Gene Names	ELK; EPHT2; HEK6; NET; EK6; hEK6; NET

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ephb1-3-4-antibody-peptide-elisa-immunohistochemistry-western-blot-elisa/329770>