

Rabbit anti-Human EPHB2 Polyclonal Antibody | anti-EPHB2 antibody

EPHB2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321905	Rabbit	Human	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

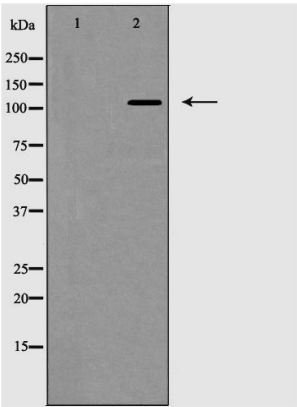
PRODUCT SYNONYMS

EPHB2; Polyclonal Antibody; EPHB2 Antibody; cek5; Developmentally regulated EPH related tyrosine kinase; DRT; EK5; ELK related protein tyrosine kinase; Eph receptor B2; EPH tyrosine kinase 3; EPH-like kinase 5; EPHB2_HUMAN; Ephrin type B receptor 2; Ephrin type-B receptor 2; EPHT 3; ERK; ETECK; hEK5; Nuk; Prkm 5; Receptor protein tyrosine kinase HEK 5; Renal carcinoma antigen NY-REN-47; Sek 3; Tyro 5; Tyrosine protein kinase receptor CEK 5; Tyrosine protein kinase receptor EPH 3; Tyrosine protein kinase receptor QEK 5; Tyrosine-protein kinase receptor EPH-3; Tyrosine-protein kinase TYRO5; anti-EPHB2 antibody

PRODUCT SPECIFICATIONS

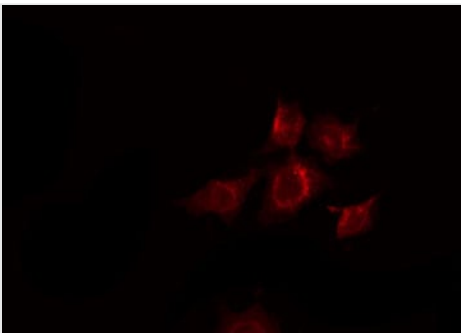
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	EPHB2 antibody detects endogenous levels of total EPHB2
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1055
Applicable Applications for anti-EPHB2 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human EPHB2
Subcellular Location	Membrane; Single-Pass Type I Membrane Protein.
Tissue Specificity	Brain, heart, lung, kidney, placenta, pancreas, liver and skeletal muscle. Preferentially expressed in fetal brain.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of EPHB2 expression in Jurkat cells, The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA321905 staining HeLa by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-EPHB2 antibody

Function: 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. Functions in axon guidance during development. Involved in the guidance of commissural axons, that form a major interhemispheric connection between the 2 temporal lobes of the cerebral cortex. Also involved in guidance of contralateral inner ear efferent growth cones at the midline and of retinal ganglion cell axons to the optic disk. In addition to axon guidance, also regulates dendritic spines development and maturation and stimulates the formation of excitatory synapses. Upon activation by EFNB1, abolishes the ARHGEF15-mediated negative regulation on excitatory synapse formation. Controls other aspects of development including angiogenesis, palate development and in inner ear development through regulation of endolymph production. Forward and reverse signaling through the EFNB2/EPHB2 complex regulate movement and adhesion of cells that tubularize the urethra and septate the cloaca. May function as a tumor suppressor.

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 (via PDZ-binding motif) with GRIP1 and PICK1 (via PDZ domain) (By similarity). Interacts with ARHGEF15; mediates ARHGEF15 phosphorylation, ubiquitination and degradation by the proteasome. Interacts with AQP1; involved in endolymph production in the inner ear.

Similarity: Belongs to the protein kinase superfamily. Tyr protein kinase family. Ephrin receptor subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	822606583
NCBI GeneID	2048
NCBI Accession #	NP_001296122.1
NCBI GenBank Nucleotide #	NM_001309193.1
UniProt Accession #	P29323; O43477; Q5T0U6; Q5T0U7; Q5T0U8
Molecular Weight	Observed: 117 kDa Predicted: 118 kDa
NCBI Official Full Name	ephrin type-B receptor 2 isoform 4
NCBI Official Synonym Full Names	EPH receptor B2
NCBI Official Symbol	EPHB2
NCBI Official Synonym Symbols	DRT; EK5; ERK; CAPB; Hek5; PCBC; EPHT3; Tyro5
NCBI Protein Information	ephrin type-B receptor 2

UniProt Protein Name	Ephrin type-B receptor 2
UniProt Gene Name	EPHB2
UniProt Synonym Gene Names	DRT; EPHT3; EPTH3; ERK; HEK5; TYRO5; EK5; hEK5

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/ephb2-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/321905>