

Rabbit EPHA5 Polyclonal Antibody | anti-EPHA5 antibody

Phospho-EPHA5 (Tyr650) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329905	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%)	ELISA, Western Blot

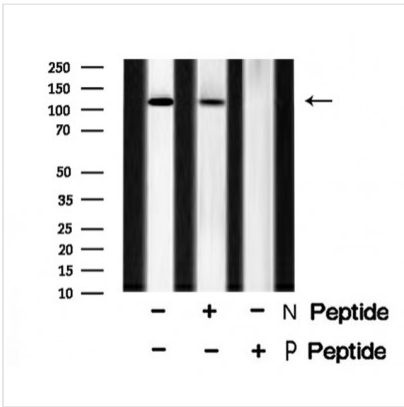
PRODUCT SYNONYMS

EPHA5; Polyclonal Antibody; Phospho-EPHA5 (Tyr650) Antibody; Brain-specific kinase; bsk; CEK 7; Eck like sequence 1; EHK 1; EHK-1; EK7; Els 1; Ephhomology kinase 1; EPH-like kinase 7; EPHA5_HUMAN; Ephrin type A receptor 5; Ephrin type-A receptor 5; HEK 7; hEK7; Receptor protein tyrosine kinase HEK 7; Rek 7; TYRO 4; Tyrosine protein kinase receptor EHK 1; anti-EPHA5 antibody

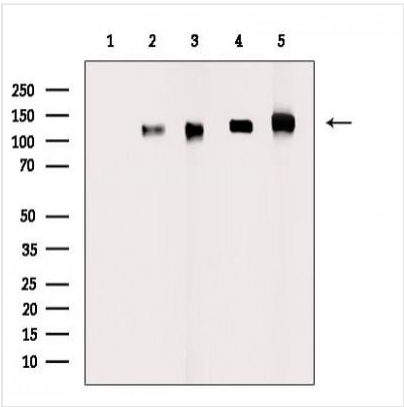
PRODUCT SPECIFICATIONS

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-EPHA5 (Tyr650) Antibody detects endogenous levels of EPHA5 only when phosphorylated at Tyr650. Tissue Specificity: Almost exclusively expressed in the nervous system in cortical neurons, cerebellar Purkinje cells and pyramidal neurons within the cortex and hippocampus. Display an increasing gradient of expression from the forebrain to hindbrain and spinal cord.
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-EPHA5 antibody	ELISA (Peptide ELISA), WB (Western Blot)
Immunogen	A synthesized peptide derived from human EPHA5 around the phosphorylation site of Tyr650.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Phosphorylated. Phosphorylation is stimulated by the ligand EFNA5. Dephosphorylation upon stimulation by glucose, inhibits EPHA5 forward signaling and results in insulin secretion (By similarity).
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 SAM domain) with SAMD5 (via SAM domain) (By similarity).
Similarity	Belongs to the protein kinase superfamily. Tyr protein kinase family. Ephrin receptor subfamily.
Subcellular Location	Cell membrane>Single-pass type I membrane protein. Cell projection>Axon. Cell projection>Dendrite.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of EPHA5 (Phospho-Tyr650) using PMA treated HeLa whole cell lysates. -/+ means absence or presence of N peptide (non-phospho peptide) and P peptide (phospho peptide).



WB (Western Blot)
Western blot analysis of extracts from various samples, using Phospho-EPHA5 (Tyr650) Antibody. Lane 1: UV treated MCF7 cells, blocked with antigen-specific peptides, Lane 2: UV treated MCF7 cells, Lane 3: RAW264.7 cells LPS, Lane 4: C6 cells LPS, Lane 5: HepG2 cells LPS.

ADDITIONAL INFORMATION

Related Product Information for anti-EPHA5 antibody	Receptor tyrosine kinase which binds promiscuously GPI-anchored ephrin-A 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. Among GPI-anchored ephrin-A ligands, EFNA5 most probably constitutes the cognate/functional ligand for EPHA5. Functions as an axon guidance molecule during development and may be involved in the development of the retinotectal, entorhino-hippocampal and hippocamposeptal pathways. Together with EFNA5 plays also a role in synaptic plasticity in adult brain through regulation of synaptogenesis. In addition to its function in the nervous system, the interaction of EPHA5 with EFNA5 mediates communication between pancreatic islet cells to regulate glucose-stimulated insulin secretion (By similarity).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	221625401
NCBI GeneID	2044
NCBI Accession #	NP_004430.4
NCBI GenBank Nucleotide #	NM_004439.5
UniProt Accession #	P54756; Q7Z3F2
Molecular Weight	114,803 Da
NCBI Official Full Name	ephrin type-A receptor 5 isoform a
NCBI Official Synonym Full Names	EPH receptor A5
NCBI Official Symbol	EPHA5
NCBI Official Synonym Symbols	CEK7; EHK1; HEK7; TYRO4
NCBI Protein Information	ephrin type-A receptor 5; EK7; EHK-1; EPH-like kinase 7; EPH homology kinase 1; Eph homology kinase-1; brain-specific kinase; receptor protein-tyrosine kinase HEK7; tyrosine-protein kinase receptor EHK-1
UniProt Protein Name	Ephrin type-A receptor 5
UniProt Gene Name	EPHA5
UniProt Synonym Gene Names	BSK; EHK1; HEK7; TYRO4; EHK-1; EK7; hEK7
UniProt Entry Name	EPHA5_HUMAN

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/epha5-antibody-peptide-elisa-western-blot-elisa/329905>