

Rabbit EPHA8 Polyclonal Antibody | anti-EPHA8 antibody

Phospho-EPHA8 (Tyr839) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329713	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (91%), Bovine (91%), Horse (91%), Sheep (91%), Rabbit (91%), Dog (91%), Chicken (91%)	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

EPHA8; Polyclonal Antibody; Phospho-EPHA8 (Tyr839) Antibody; EEK; EK3; EpHand ELK related kinase; EpHlike kinase 3; EpHreceptor A8; EPH- and ELK-related kinase; EPH-like kinase 3; EphA8; EPHA8_HUMAN; Ephrin Type A Receptor 8 Precursor; Ephrin type-A receptor 8; HEK3; KIAA1459; Tyrosine-protein kinase receptor EEK; Tyrosylprotein Kinase; anti-EPHA8 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (91%), Bovine (91%), Horse (91%), Sheep (91%), Rabbit (91%), Dog (91%), Chicken (91%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-EPHA8 (Tyr839) Antibody detects endogenous levels of EPHA8 only when phosphorylated at Tyr839.
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-EPHA8 antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human EPHA8 around the phosphorylation site of Tyr839.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Phosphorylated. Phosphorylation is stimulated upon binding of its ligands including EFNA2, EFNA3 and EFNA5. Autophosphorylation on Tyr-616 is critical for association with FYN. Autophosphorylation on Tyr-839 modulates tyrosine kinase activity (By similarity). Ubiquitinated. Ubiquitination by CBL regulates the receptor stability and activity through proteasomal degradation. ANKS1A prevents ubiquitination and degradation (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. May also form heterodimers with other ephrin receptors (By similarity). Interacts with FYN; possible downstream effector of EPHA8 in regulation of cell adhesion. Interacts with PIK3CG; regulates integrin-mediated cell adhesion to substrate. Interacts with TIAM1; regulates clathrin-mediated endocytosis of EPHA8. Interacts with ANKS1A and ANKS1B; EPHA8 kinase activity-independent but stimulated by EPHA8 ubiquitination.
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. Early endosome membrane. Note: Undergoes clathrin-mediated endocytosis upon EFNA5-binding and is targeted to early endosomes.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemisry)

At 1/200 staining Human kidney 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 (Immunohiostchemistry)

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 EPHA8 (Phospho-Tyr839) using UV treated A2780 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-EPHA8 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. The GPI-anchored ephrin-A EFNA2, EFNA3, and EFNA5 are able to activate EPHA8 through phosphorylation. With EFNA5 may regulate integrin-mediated cell adhesion and migration on fibronectin substrate but also neurite outgrowth. During development of the nervous system plays also a role in axon guidance. Downstream effectors of the EPHA8 signaling pathway include FYN which promotes cell adhesion upon activation by EPHA8 and the MAP kinases in the stimulation of neurite outgrowth (By similarity).

NCBI AND UNIPROT INFORMATION

NCBI GI #	55770892
NCBI GeneID	2046
NCBI Accession #	NP_001006944
NCBI GenBank Nucleotide #	NM_001006943
UniProt Accession #	P29322; Q6IN80; Q8IUX6; Q9NUA9; Q9P269
Molecular Weight	111,003 Da
NCBI Official Full Name	ephrin type-A receptor 8 isoform 2
NCBI Official Synonym Full Names	EPH receptor A8
NCBI Official Symbol	EPHA8
NCBI Official Synonym Symbols	EEK; EK3; HEK3
NCBI Protein Information	ephrin type-A receptor 8; EPH-like kinase 3; tyrosylprotein kinase; protein-tyrosine kinase; hydroxyaryl-protein kinase; EPH- and ELK-related kinase; EPH- and ELK-related tyrosine kinase; tyrosine-protein kinase receptor EEK
UniProt Protein Name	Ephrin type-A receptor 8
UniProt Gene Name	EPHA8
UniProt Synonym Gene Names	EEK; HEK3; KIAA1459; EK3; hEK3
UniProt Entry Name	EPHA8_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/epha8-antibody-peptide-elisa-immunohistochemistry-western-blot-elisa/329713>