

Rabbit EPHA3 Polyclonal Antibody | anti-EPHA3 antibody

EPHA3 Antibody

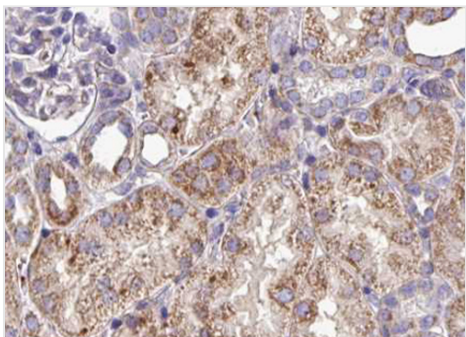
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321912	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

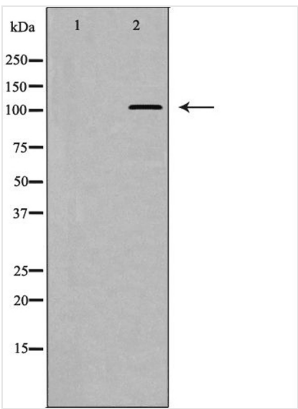
EPHA3; Polyclonal Antibody; EPHA3 Antibody; AW492086; Cek4; EC 2.7.10.1; EK4; End3; Eph receptor A3; EPH-like kinase 4; EPH-like tyrosine kinase 1; EPHA3_HUMAN; Ephrin receptor EphA3; Ephrin type-A receptor 3; ETK 1; ETK; ETK1; HEK 4; HEK; HEK4; Human embryo kinase 1; Human embryo kinase; Mek4; MGC109882; Receptor tyrosine kinase HEK; Testicular tissue protein Li 64; Tyro 4; Tyro4; TYRO4 protein tyrosine kinase; Tyrosine protein kinase receptor ETK 1; Tyrosine-protein kinase receptor ETK1; Tyrosine-protein kinase TYRO4; anti-EPHA3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	EPHA3 antibody detects endogenous levels of total EPHA3
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	983
Applicable Applications for anti-EPHA3 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human EPHA3
Subcellular Location	Secreted and Cell Membrane.
Tissue Specificity	Widely expressed. Highest level in placenta.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken
Similarity	Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA321912 at 1/100 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.



WB (Western Blot)
Western blot analysis of EPHA3 expression in 293 cells. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-EPHA3 antibody

Description: Receptor for members of the ephrin-A family. Binds to ephrin-A2, -A3, -A4 and-A5. Could play a role in lymphoid function.

Function: Receptor tyrosine kinase which binds promiscuously membrane-bound ephrin 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. Highly promiscuous for ephrin-A ligands it binds preferentially EFNA5. Upon activation by EFNA5 regulates cell-cell adhesion, cytoskeletal organization and cell migration. Plays a role in cardiac cells migration and differentiation and regulates the formation of the atrioventricular canal and septum during development probably through activation by EFNA1. Involved in the retinotectal mapping of neurons. May also control the segregation but not the guidance of motor and sensory axons during neuromuscular circuit development.

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. Forms a ternary EFNA5-EPHA3-ADAM10 complex mediating EFNA5 extracellular domain shedding by ADAM10 which regulates the EFNA5-EPHA3 complex internalization and function. Interacts with NCK1 (via SH2 domain); mediates EFNA5-EPHA3 signaling (By similarity). Interacts (phosphorylated) with PTPN1; dephosphorylates EPHA3 and may regulate its trafficking and function. Interacts (phosphorylated) with CRK; mediates EFNA5-EPHA3 signaling through RHOA GTPase activation.

Post-translational Modifications: Autophosphorylates upon activation by EFNA5. Phosphorylation on Tyr-602 mediates interaction with NCK1. Dephosphorylated by PTPN1.

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

NCBI AND UNIPROT INFORMATION

NCBI GI #	21361241
NCBI GeneID	2042
NCBI Accession #	NP_005224.2
NCBI GenBank Nucleotide #	NM_005233.5
UniProt Accession #	P29320; Q9H2V3; Q9H2V4
Molecular Weight	Observed: 110 kDa Predicted: 111 kDa
NCBI Official Full Name	ephrin type-A receptor 3 isoform a
NCBI Official Synonym Full Names	EPH receptor A3
NCBI Official Symbol	EPHA3

NCBI Official Synonym Symbols	EK4; ETK; HEK; ETK1; HEK4; TYRO4
NCBI Protein Information	ephrin type-A receptor 3
UniProt Protein Name	Ephrin type-A receptor 3
UniProt Gene Name	EPHA3
UniProt Synonym Gene Names	ETK; ETK1; HEK; TYRO4; EK4; hEK4; Human embryo kinase; Eph-like tyrosine kinase 1

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/epha3-antibody-immunohistochemistry-western-blot-elisa/321912>