

Rabbit anti-Human, mouse EPHA4 Polyclonal Antibody | anti-EPHA4 antibody

EPHA4 Antibody (Center)

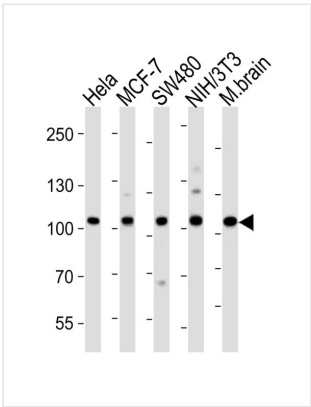
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA290354	Rabbit	Human, mouse	Western Blot, Immunohistochemistry, ELISA

PRODUCT SYNONYMS

EPHA4; Polyclonal Antibody; EPHA4 Antibody (Center); Ephrin type-A receptor 4; EPH-like kinase 8; EK8; hEK8; Tyrosine-protein kinase TYRO1; Tyrosine-protein kinase receptor SEK; HEK8; SEK; TYRO1; anti-EPHA4 antibody

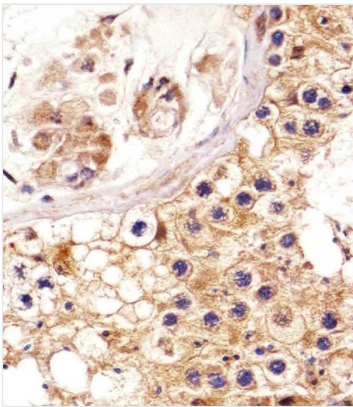
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, mouse
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This EPHA4 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 383-417 amino acids from the Central region of human EPHA4.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.463 (varies by lot)
Sequence Length	935
Applicable Applications for anti-EPHA4 antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA
Crown Antibody	Yes
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



WB (Western Blot)

Western blot analysis of lysates from HeLa, MCF-7, SW480, mouse NIH/3T3 cell line, mouse brain tissue lysate (from left to right), using EPHA4 Antibody (Center). AAA290354 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.



IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded H. testis section using EPHA4 Antibody (Center). AAA290354 was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.

ADDITIONAL INFORMATION

Related Product Information for anti-EPHA4 antibody	Receptor tyrosine kinase which binds 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, it has the unique property among Eph receptors to bind and to be physiologically activated by both GPI-anchored ephrin-A and transmembrane ephrin-B ligands including EFNA1 and EFNB3. Upon activation by ephrin ligands, modulates cell morphology and integrin-dependent cell adhesion through regulation of the Rac, Rap and Rho GTPases activity. Plays an important role in the development of the nervous system controlling different steps of axonal guidance including the establishment of the corticospinal projections. May also control the segregation of motor and sensory axons during neuromuscular circuit development. Beside its role in axonal guidance plays a role in synaptic plasticity. Activated by EFNA1 phosphorylates CDK5 at 'Tyr-15' which in turn phosphorylates NGEF regulating RHOA and dendritic spine morphogenesis. In the nervous system, plays also a role in repair after injury preventing axonal regeneration and in angiogenesis playing a role in central nervous system vascular formation. Additionally, its promiscuity makes it available to participate in a variety of cell-cell signaling regulating for instance the development of the thymic epithelium.
Product Categories/Family for anti-EPHA4 antibody	Crown Antibodies; Cardiovascular; Neuroscience; Signal Transduction; Stem Cells
References	Fox G.M.,et al.Oncogene 10:897-905(1995). Richter M.,et al.J. Neurosci. 27:14205-14215(2007). Fu W.Y.,et al.Nat. Neurosci. 10:67-76(2007). Oppermann F.S.,et al.Mol. Cell. Proteomics 8:1751-1764(2009). Qin H.,et al.J. Biol. Chem. 283:29473-29484(2008).

NCBI AND UNIPROT INFORMATION

NCBI GI #	4758280
NCBI GeneID	2043
NCBI Accession #	NP_004429.1
NCBI GenBank Nucleotide #	NM_004438.4
UniProt Accession #	P54764; Q2M380; A8K2P1; B2R601; B7Z6Q8
Molecular Weight	109860
NCBI Official Full Name	ephrin type-A receptor 4 isoform a
NCBI Official Synonym Full Names	EPH receptor A4

NCBI Official Symbol	EPHA4
NCBI Official Synonym Symbols	SEK; HEK8; TYRO1
NCBI Protein Information	ephrin type-A receptor 4
UniProt Protein Name	Ephrin type-A receptor 4
UniProt Gene Name	EPHA4
UniProt Synonym Gene Names	HEK8; SEK; TYRO1; EK8; hEK8
UniProt Entry Name	EPHA4_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/epha4-antibody-western-blot-immunohistochemistry-elisa/290354>