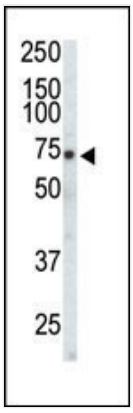
EPHA3 Antibody – Rabbit Polyclonal

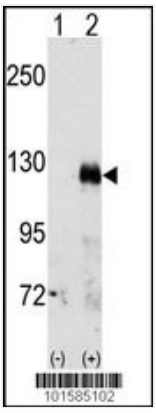
PRODUCT OVERVIEW

Product Name	EphA3, Polyclonal Antibody
Full Product Name	EphA3 Antibody (C-term)
Product Gene Name	anti-EPHA3 antibody
Product Synonym Names	Ephrin type-A receptor 3; EPH-like kinase 4; EK4; hEK4; HEK; Human embryo kinase; Tyrosine-protein kinase TYRO4; Tyrosine-protein kinase receptor ETK1; Eph-like tyrosine kinase 1; EPHA3; ETK; ETK1; HEK; TYRO4
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human, hamster
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 1.36 (lot specific)
Specificity	This EphA3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 896-928 amino acids from the C-terminal region of human EphA3.
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.
Antibody/Peptide Pairs	EphA3 peptide (MBS9227050) is used for blocking the activity of EphA3 antibody (MBS9205291)
Molecular Weight	110131
Immunogen Sequence Positions	896-928
OMIM	114500
3D Structure	ModBase 3D Structure for P29320
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Product Categories/Family for anti-EPHA3 antibody	Cardiovascular; Neuroscience; Signal Transduction
Applications Tested/Suitable for anti-EPHA3 antibody	ELISA (EIA), Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-EPHA3 antibody	WB~~1:1000

Related Product Information for anti-EPHA3 antibody	Protein kinases are enzymes that transfer a phosphate group from a phosphate donor, generally the g phosphate of ATP, onto an acceptor amino acid in a substrate protein. By this basic mechanism, protein kinases mediate most of the signal transduction in eukaryotic cells, regulating cellular metabolism, transcription, cell cycle progression, cytoskeletal rearrangement and cell movement, apoptosis, and differentiation. With more than 500 gene products, the protein kinase family is one of the largest families of proteins in eukaryotes. The family has been classified in 8 major groups based on sequence comparison of their tyrosine (PTK) or serine/threonine (STK) kinase catalytic domains. The tyrosine kinase (TK) group is mainly involved in the regulation of cell-cell interactions such as differentiation, adhesion, motility and death. There are currently about 90 TK genes sequenced, 58 are of receptor protein TK (e.g. EGFR, EPH, FGFR, PDGFR, TRK, and VEGFR families), and 32 of cytosolic TK (e.g. ABL, FAK, JAK, and SRC families).
Product References and Citations for anti-EPHA3 antibody	Chiari, R., et al., Cancer Res. 60(17):4855-4863 (2000). Wicks, I.P., et al., Proc. Natl. Acad. Sci. U.S.A. 89(5):1611-1615 (1992). Boyd, A.W., et al., J. Biol. Chem. 267(5):3262-3267 (1992).
Other Notes	Small volumes of anti-EPHA3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for EPHA3 purchase	MBS9205291 is an antibody targeting EPHA3. Also known as EphA3 Antibody (C-term). Reactive in Human, hamster. Host: Rabbit.



Western Blot (WB) of anti-EPHA3 antibody
Western blot analysis of anti-EphA3 Pab in CHO cell lysate. EphA3 (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.



Western Blot (WB) of anti-EPHA3 antibody
Western blot analysis of EphA3(arrow) using rabbit polyclonal EphA3 Antibody (C-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the EphA3 gene (Lane 2) (Origene Technologies).



Immunohistochemistry (IHC) of anti-EPHA3 antibody
Formalin-fixed and paraffin-embedded human placenta tissue reacted with EphA3 antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EPHA3. It may not necessarily be applicable to this product.

NCBI GI #	21361241
NCBI GeneID	2042
NCBI Accession #	NP_005224.2
NCBI Related Accession #	NP_872585.1
UniProt Primary Accession #	P29320
UniProt Secondary Accession #	Q9H2V3; Q9H2V4
UniProt Related Accession #	P29320
GenBank Nucleotide #	NM_005233.5
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
UniProt Protein Name	Ephrin type-A receptor 3
UniProt Synonym Protein Names	EPH-like kinase 4; EK4; hEK4; HEK; Human embryo kinase; Tyrosine-protein kinase TYRO4; Tyrosine-protein kinase receptor ETK1; Eph-like tyrosine kinase 1
Protein Family	Ephrin type-A receptor
UniProt Gene Name	EPHA3
UniProt Synonym Gene Names	ETK; ETK1; HEK; TYRO4; EK4; hEK4; Human embryo kinase; Eph-like tyrosine kinase 1
UniProt Entry Name	EPHA3_HUMAN
NCBI Protein Information	ephrin type-A receptor 3
NCBI Summary for EPHA3	This gene belongs to the ephrin receptor subfamily of the protein-tyrosine kinase family. EPH and EPH-related receptors have been implicated in mediating developmental events, particularly in the nervous system. Receptors in the EPH subfamily typically have a single kinase domain and an extracellular region containing a Cys-rich domain and 2 fibronectin type III repeats. The ephrin receptors are divided into 2 groups based on the similarity of their extracellular domain sequences and their affinities for binding ephrin-A and ephrin-B ligands. This gene encodes a protein that binds ephrin-A ligands. Two alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, Jul 2008]

UniProt Comments for EPHA3	EphA3: a receptor tyrosine kinase of the Eph family. Receptor for members of the ephrin-A family: binds to ephrin-A2, -A3, -A4 and -A5The Eph receptor tyrosine kinase family, the largest in the tyrosine kinase group, has fourteen members. They bind membrane-anchored ligands, ephrins, at sites of cell-cell contact, regulating the repulsion and adhesion of cells that underlie the establishment, maintenance, and remodeling of patterns of cellular organization. Eph signals are particularly important in regulating cell adhesion and cell migration during development, axon guidance, homeostasis and disease. EphA receptors bind to GPI-anchored ephrin-A ligands, while EphB receptors bind to ephrin-B proteins that have a transmembrane and cytoplasmic domain. Interactions between EphB receptor kinases and ephrin-B proteins transduce signals bidirectionally, signaling to both interacting cell types. Eph receptors and ephrins also regulate the adhesion of endothelial cells and are required for the remodeling of blood vessels. Two point mutations seen in a survey of colorectal tumors. Soluble receptors reduce tumor growth and angiogenesis in mouse models. Two alternatively spliced isoforms of EphA3 have been described. Protein type: Protein kinase, tyrosine (receptor); Protein kinase, TK; Membrane protein, integral; Kinase, protein; EC 2.7.10.1; TK group; Eph family Chromosomal Location of Human Ortholog: 3p11.2 Cellular Component: integral to plasma membrane; early endosome; extracellular region; plasma membrane Molecular Function: protein binding; GPI-linked ephrin receptor activity; ATP binding Biological Process: axon guidance; cell migration; peptidyl-tyrosine phosphorylation; regulation of actin cytoskeleton organization and biogenesis; regulation of focal adhesion formation; ephrin receptor signaling pathway; cell adhesion
Research Articles on EPHA3	**1.** Based on the knowledge that EPHA4 has been previously shown to rescue SOD1 transgenic mice from ALS phenotype and prolongs survival, EPHA3 may be a promising candidate for therepuetic interventions
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