EPHA4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	EPHA4, Polyclonal Antibody
Full Product Name	EPHA4 (Center) Rabbit pAb
Product Gene Name	anti-EPHA4 antibody
Product Synonym Names	Ephrin type-A receptor 4; EPH-like kinase 8; EK8; hEK8; Tyrosine-protein kinase TYRO1; Tyrosine-protein kinase receptor SEK; EPHA4; HEK8; SEK; TYRO1
Clonality	Polyclonal
Isotype	Ig
Clone Number	RB50833
Host	Rabbit
Species Reactivity	Human
Purity/Purification	Affinity Purified
OMIM	602188
3D Structure	ModBase 3D Structure for P54764
Immunogen	This EPHA4 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 417-451 amino acids from the central region of human EPHA4.
Cellular Localization	Cell Junction, Cell Membrane, Cell Projection, Endosome, Membrane, Postsynaptic Cell Membrane, Synapse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-EPHA4 antibody	Western Blot (WB)
Application Notes for anti-EPHA4 antibody	WB: 1:1000
Related Product Information for anti-EPHA4 antibody	MBS8556190 is an antibody targeting EPHA4. Also known as EPHA4 (Center) Rabbit pAb. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-EPHA4 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EPHA4. It may not necessarily be applicable to this product.

NCBI GI #	4758280
NCBI GeneID	2043
NCBI Accession #	NP_004429.1
UniProt Primary Accession #	P54764
UniProt Related Accession #	P54764
GenBank Nucleotide #	NP_004429.1

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	EK8; SEK; HEK8; TYRO1
UniProt Protein Name	Ephrin type-A receptor 4
UniProt Synonym Protein Names	EPH-like kinase 8; EK8; hEK8; Tyrosine-protein kinase TYRO1; Tyrosine-protein kinase receptor SEK
Protein Family	Ephrin type-A receptor
UniProt Gene Name	EPHA4
UniProt Synonym Gene Names	HEK8; SEK; TYRO1; EK8; hEK8
UniProt Entry Name	EPHA4_HUMAN
NCBI Protein Information	ephrin type-A receptor 4
NCBI Summary for EPHA4	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. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2015]
UniProt Comments for EPHA4	EphA4: a tyrosine kinase receptor of the Eph family. Receptor for members of the ephrin-A family. Binds to ephrin-A1, -A4 and -A5. Binds more poorly to ephrin-A2 and -A3. May play a role in hindbrain pattern formation. The 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. Protein type: EC 2.7.10.1; Kinase, protein; Protein kinase, tyrosine (receptor); Membrane protein, integral; Protein kinase, TK; TK group; Eph family Chromosomal Location of Human Ortholog: 2q36.1 Cellular Component: Golgi apparatus; cell surface; endoplasmic reticulum; integral to plasma membrane; postsynaptic density; dendrite; dendritic spine; perikaryon; postsynaptic membrane; mitochondrial outer membrane; axon; early endosome membrane; cytoplasm; plasma membrane; nerve terminal; neuromuscular junction; cell junction; filopodium Molecular Function: identical protein binding; protein binding; ephrin receptor binding; transmembrane-ephrin receptor activity; GPI-linked ephrin receptor activity; PH domain binding; ATP binding; protein kinase activity Biological Process: axon guidance; positive regulation of JNK activity; peptidyl-tyrosine phosphorylation; negative regulation of axon regeneration; protein amino acid autophosphorylation; motor axon guidance; regulation of astrocyte differentiation; positive regulation of dendrite morphogenesis; glial cell migration; regulation of axonogenesis; adult walking behavior; ephrin receptor signaling pathway; corticospinal tract morphogenesis; cell adhesion
Research Articles on EPHA4	**1.** blockage of EphA4/ephrin signaling between neuron and microglia decreased in oxygen-glucose deprivation and reperfusion -induced injury by promoting alternative activation of microglia via RhoA/ROCK2 signaling.
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