EPHA2 Blocking Peptide – >85% Purity

PRODUCT OVERVIEW

Product Name	EPHA2, Blocking Peptide
Full Product Name	EPHA2 Blocking Peptide
Product Gene Name	EPHA2 blocking peptide
Product Synonym Gene Name	EPHA3; EPHA4
Product Synonym Names	EPHA2; ECK; Ephrin type-A receptor 2; Epithelial cell kinase; Tyrosine-protein kinase receptor ECK; EPHA3; ETK; ETK1; HEK; TYRO4; 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; EPHA4; HEK8; SEK; TYRO1; Ephrin type-A receptor 4; EPH-like kinase 8; EK8; hEK8; Tyrosine-protein kinase TYRO1; Tyrosine-protein kinase receptor SEK
Host	Synthetic
Species Reactivity	Human, Mouse, Rat, Chicken, Monkey
Form/Format	Lyophilized Powder
Purity/Purification	>85%
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Antibody/Peptide Pairs	EPHA2 peptide (MBS8243509) is used for blocking the activity of EPHA2 antibody (MBS8242903)
Molecular Weight	54,305 Da
OMIM	116600
Quality Control	The quality of the peptide was evaluated by reversed-phase HPLC and by mass spectrometry.
Applications Tested/Suitable for EPHA2 blocking peptide	Blocking (BL)
Application Notes for EPHA2 blocking peptide	Blocking Peptide to the diluted primary antibody in a molar ratio of 10:1 (peptide to antibody) and incubate the mixture at 4 degree C for overnight or at room temperature for 2 hours.
Related Product Information for EPHA2 blocking peptide	MBS8243509 is a blocking peptide targeting EPHA2. Reactive in Human, Mouse, Rat, Chicken, Monkey. Host: Synthetic. The peptide is used to block Anti-EPHA2 Antibody reactivity.
Other Notes	Small volumes of EPHA2 blocking peptide 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 EPHA2. It may not necessarily be applicable to this product.

NCBI GI #	229462861
NCBI GeneID	1969
NCBI Accession #	P29317.2
UniProt Primary Accession #	P29317
UniProt Secondary Accession #	Q8N3Z2; B5A968
UniProt Related Accession #	P29317

NCBI Official Full Name	Ephrin type-A receptor 2
NCBI Official Synonym Full Names	EPH receptor A2
NCBI Official Symbol	EPHA2
NCBI Official Synonym Symbols	ECK; CTPA; ARCC2; CTPP1; CTRCT6
UniProt Protein Name	Ephrin type-A receptor 2
UniProt Synonym Protein Names	Epithelial cell kinase; Tyrosine-protein kinase receptor ECK
Protein Family	Ephrin type-A receptor
UniProt Gene Name	EPHA2
UniProt Synonym Gene Names	ECK
UniProt Entry Name	EPHA2_HUMAN
NCBI Protein Information	ephrin type-A receptor 2
NCBI Summary for EPHA2	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. Mutations in this gene are the cause of certain genetically-related cataract disorders.[provided by RefSeq, May 2010]
UniProt Comments for EPHA2	EphA2: a receptor tyrosine kinase. Receptor for members of the ephrin-A family. Binds to ephrin-A1, -A3, -A4 AND -A5. 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. Overexpressed in many cancers including aggressive ovarian, cervical and breast carcinomas, and lung cancer. Expression correlates with degree of angiogenesis, metastasis and xenograft tumor growth. Soluble receptor inhibits tumor growth and angiogenesis in mice. Protein type: Kinase, protein; EC 2.7.10.1; Membrane protein, integral; Protein kinase, TK; Protein kinase, tyrosine (receptor); TK group; Eph family Chromosomal Location of Human Ortholog: 1p36 Cellular Component: cell surface; focal adhesion; integral to plasma membrane; intracellular; plasma membrane Molecular Function: ATP binding; ephrin receptor activity; protein binding; transmembrane receptor protein tyrosine kinase activity Biological Process: angiogenesis; axial mesoderm formation; axon guidance; bone remodeling; cell adhesion; cell migration; DNA damage response, signal transduction resulting in induction of apoptosis; ephrin receptor signaling pathway; keratinocyte differentiation; mammary gland epithelial cell proliferation; multicellular organismal development; negative regulation of protein kinase B signaling cascade; neural tube development; notochord cell development; notochord formation; osteoblast differentiation; osteoclast differentiation; peptidyl-tyrosine phosphorylation; protein kinase B signaling cascade; regulation of angiogenesis; regulation of blood vessel endothelial cell migration; regulation of cell adhesion mediated by integrin; skeletal development; vasculogenesis; viral reproduction Disease: Cataract 6, Multiple Types
Research Articles on EPHA2	**1.** peptide fragments of Odin-Sam1 interacting with EphA2-Sam

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