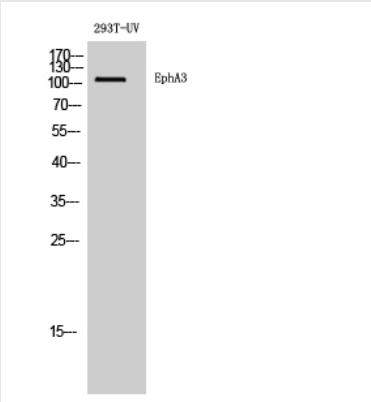
EphA3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	EphA3, Polyclonal Antibody
Full Product Name	EphA3 Polyclonal Antibody
Product Gene Name	anti-EphA3 antibody
Product Synonym Names	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
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration	1 mg/ml (lot specific)
Specificity	EphA3 Polyclonal Antibody detects endogenous levels of EphA3 protein.
Preparation and Storage	Store at -20 degree C/1 year
Molecular Weight	60,946 Da
OMIM	114500
3D Structure	ModBase 3D Structure for P29320
Immunogen Type	peptide
Immunogen Description	Synthesized peptide derived from the C-terminal region of human EphA3.
Target Name	EphA3
Product Categories/Family for anti-EphA3 antibody	Total protein Ab
Applications Tested/Suitable for anti-EphA3 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-EphA3 antibody	Western Blot: 1:500 - 1:2000 ELISA: 1:40000 Not yet tested in other applications.
Related Product Information for anti-EphA3 antibody	MBS9410038 is an antibody targeting EphA3. Also known as EphA3 Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
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.



Western Blot (WB) of anti-EphA3 antibody
Western Blot analysis of 293T-UV cells using EphA3 Polyclonal Antibody

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
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: Kinase, protein; EC 2.7.10.1; Protein kinase, TK; Membrane protein, integral; Protein kinase, tyrosine (receptor); 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.** Data indicate that hypoxia increased EphA3 receptor (EphA3) mRNA expression in EphA3+ endometrial multipotent mesenchymal stromal cells (eMSCs).
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