EPHA3 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	EPHA3, Recombinant Protein
Full Product Name	Recombinant Human EPHA3 Protein, C-His
Product Gene Name	EPHA3 recombinant protein
Product Synonym Names	Ephrin type-A receptor 3; 2.7.10.1; 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
Host	Mammalian
Form/Format	Lyophilized from a solution in PBS pH7.4, 1mM EDTA, 4% Trehalose, 1% Mannitol.
Purity/Purification	>90% as determined by SDS-PAGE
Preparation and Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 degree C for one week. Store at -20 degree C for twelve months from the date of receipt.
Molecular Weight	110,131 Da
Sequence Positions	Met1-Gln541
Chromosome Location	Chromosome: 3; NC_000003.11 (89156674..89531284). Location: 3p11.2
OMIM	114500
3D Structure	ModBase 3D Structure for P29320
Species	Human
Reconstitution	Reconstitute in sterile water for a stock solution.
Product Categories/Family for EPHA3 recombinant protein	Recombinant Proteins
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for EPHA3 recombinant protein	SDS-PAGE (SDS), Western Blot (WB), ELISA (EIA), Immunogen
Related Product Information for EPHA3 recombinant protein	MBS1577889 is a recombinant protein targeting EPHA3. Also known as Recombinant Human EPHA3 Protein, C-His. Host: Mammalian.
Other Notes	Small volumes of EPHA3 recombinant protein 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 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
Protein Family	Ephrin type-A receptor
UniProt Gene Name	EPHA3
UniProt Synonym Gene Names	ETK; ETK1; HEK; TYRO4; EK4; hEK4; Human embryo kinase
UniProt Entry Name	EPHA3_HUMAN
NCBI Protein Information	ephrin type-A receptor 3; EPH-like kinase 4; human embryo kinase 1; eph-like tyrosine kinase 1; TYRO4 protein tyrosine kinase; tyrosine-protein kinase receptor ETK1
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); Kinase, protein; Protein kinase, TK; EC 2.7.10.1; Membrane protein, integral; TK group; Eph family Chromosomal Location of Human Ortholog: 3p11.2 Cellular Component: integral to plasma membrane; early endosome; plasma membrane; extracellular region 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.** EphA3 may play important roles in the angiogenesis and prognosis of gastric carcinoma

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