EPHA3 Antibody

PRODUCT OVERVIEW

Product Name	EPHA3, Antibody
Full Product Name	Biotinylated Anti-EPHA3 (ifabotuzumab biosimilar) mAb
Product Gene Name	anti-EPHA3 antibody
Product Synonym Names	TYRO4; HEK4; ETK1; ETK; EK4; HEK; KB-004; KB004
Isotype	IgG1
Host	Humanized
Species Reactivity	Human
Form/Format	Lyophilized from sterile PBS, pH 7.4. Normally 5%-8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
Preparation and Storage	Store at -20 degree C to -80 degree C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80 degree C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Molecular Weight	110,131 Da
Chromosome Location	Chromosome: 3; NC_000003.11 (89156674..89531284). Location: 3p11.2
OMIM	114500
3D Structure	ModBase 3D Structure for P29320
Conjugation	Biotinylated
Product Categories/Family for anti-EPHA3 antibody	Biosimilar reference antibodies
Applications Tested/Suitable for anti-EPHA3 antibody	ELISA (EIA), Flow Cytometry (FC/FACS)
Application Notes for anti-EPHA3 antibody	ELISA: 1:5000-10000 FC/FACS: 1:100
Related Product Information for anti-EPHA3 antibody	MBS1880431 is an antibody targeting EPHA3. Also known as Biotinylated Anti-EPHA3 (ifabotuzumab biosimilar) mAb. Reactive in Human. Host: Humanized.
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.

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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