TEK Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	TEK, Monoclonal Antibody
Full Product Name	TEK (TEK Tyrosine Kinase, Endothelial, CD202B, TIE-2, TIE2, VMCM, VMCM1) (MaxLight 750)
Product Gene Name	anti-TEK antibody
Product Synonym Names	TEK Tyrosine Kinase; Endothelial; CD202B; TIE-2; TIE2; VMCM; VMCM1
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	3A5
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified
Specificity	Recognizes TEK.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifug removing the cap.
Molecular Weight	107.9kDa (965aa) 100-150KDa (SDS-PAGE under reducing conditions.)
OMIM	600195
3D Structure	ModBase 3D Structure for Q02763
Immunogen	TEK (NP_000450, 66aa-185aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	NQHQDPLEVTQDVTREWAKKVVWKREKASKINGAYFCEGRVRGEAIRIRTMKMRQQASFLPATLTMTVDKGDNVNISFKKVLIKEEDAVIYKNGSFIHSVP
Conjugate	MaxLight750
Product Categories/Family for anti-TEK antibody	Antibodies; Tyrosine Kinases
Applications Tested/Suitable for anti-TEK antibody	FLISA, Western Blot (WB)
Application Notes for anti-TEK antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-TEK antibody	MBS6240964 is an antibody targeting TEK. Also known as TEK (TEK Tyrosine Kinase, Endothelial, CD202B, TIE-2, TIE2, VMCM, VMCM1) (MaxLight monoclonal antibody raised against a partial recombinant TEK.

Other Notes	Small volumes of anti-TEK antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessar 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 ap

ADDITIONAL DETAILS

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

NCBI GI #	88758596
NCBI GeneID	7010
NCBI Accession #	NP_000450
UniProt Primary Accession #	Q02763
UniProt Secondary Accession #	Q5TCU2; Q8IV34; A8K6W0; B4DH20; B4DHD3; D3DRK5; E7EWI2
UniProt Related Accession #	Q02763
GenBank Nucleotide #	NM_000459.4
NCBI Official Full Name	angiopoietin-1 receptor isoform 1
NCBI Official Synonym Full Names	TEK receptor tyrosine kinase
NCBI Official Symbol	TEK
NCBI Official Synonym Symbols	TIE2; VMCM; GLC3E; TIE-2; VMCM1; CD202B
UniProt Protein Name	Angiopoietin-1 receptor
UniProt Synonym Protein Names	Endothelial tyrosine kinase; Tunica interna endothelial cell kinase; Tyrosine kinase with Ig and EGF homology domains-2; Tyrosine-protein kinase receptor TEK; Tyrosine-protein kinase receptor TIE-2; hTIE2; p140 TEK
Protein Family	Angiopoietin-1 receptor
UniProt Gene Name	TEK
UniProt Synonym Gene Names	TIE2; VMCM; VMCM1; hTIE2
UniProt Entry Name	TIE2_HUMAN
NCBI Protein Information	angiopoietin-1 receptor
NCBI Summary for TEK	This gene encodes a receptor that belongs to the protein tyrosine kinase Tie2 family. The encoded protein possesses a unique extracellular region that contains two immunoglobulin-like domains, three epidermal growth factor (EGF)-like domains and three fibronectin type III repeats. The ligand angiopoietin-1 binds to this receptor and mediates a signaling pathway that functions in embryonic vascular development. Mutations in this gene are associated with inherited venous malformations of the skin and mucous membranes. Alternative splicing results in multiple transcript variants. Additional alternatively spliced transcript variants of this gene have been described, but their full-length nature is not known. [provided by RefSeq, Feb 2014]

UniProt Comments for TEK	TIE2: a receptor tyrosine kinase of the Tie family. Receptor for angiopoietin 1. Expressed almost exclusively in endothelial cells. May constitute the earliest mammalian endothelial cell lineage marker. Appears to be critical for endothelial cell-smooth muscle cell communication in venous morphogenesis. TEK is closely related to the TIE receptor tyrosine kinase. Protein type: Membrane protein, integral; EC 2.7.10.1; Kinase, protein; Protein kinase, TK; Protein kinase, tyrosine (receptor); TK group; Tie family Chromosomal Location of Human Ortholog: 9p21 Cellular Component: microvillus; cell surface; focal adhesion; basolateral plasma membrane; integral to plasma membrane; extracellular region; actin filament; intercellular junction; lipid raft; perinuclear region of cytoplasm; apical plasma membrane; plasma membrane; stress fiber; basal plasma membrane Molecular Function: protein binding; growth factor binding; protein-tyrosine kinase activity; receptor activity; transmembrane receptor protein tyrosine kinase activity; ATP binding; protein kinase activity Biological Process: response to peptide hormone stimulus; peptidyl-tyrosine phosphorylation; response to cAMP; cell-matrix adhesion; heart development; protein amino acid autophosphorylation; positive regulation of cytokine secretion during immune response; signal transduction; cell-cell adhesion; cell-cell signaling; positive regulation of focal adhesion formation; angiogenesis; endochondral ossification; Tie receptor signaling pathway; organ regeneration; regulation of establishment and/or maintenance of cell polarity; positive regulation of phosphoinositide 3-kinase activity; positive regulation of peptidyl-serine phosphorylation; protein oligomerization; positive regulation of phosphoinositide 3-kinase cascade; positive regulation of protein kinase B signaling cascade; negative regulation of angiogenesis; positive regulation of angiogenesis; positive regulation of protein import into nucleus; response to estrogen stimulus; negative regulation of inflammatory response; endothelial cell proliferation; response to hypoxia; positive regulation of endothelial cell proliferation; regulation of vascular permeability; sprouting angiogenesis; positive regulation of protein amino acid phosphorylation; blood coagulation; leukocyte migration; transmembrane receptor protein tyrosine kinase signaling pathway; negative regulation of apoptosis Disease: Venous Malformations, Multiple Cutaneous And Mucosal
Research Articles on TEK	**1.** We demonstrate that ANGPT2 signaling activated after estrogen depletion paradoxically triggers ER+ tumor cell awakening from dormancy in their BM niche, partly indirectly via endothelial Tie2 receptor and partly directly via tumor cell surface integrin &1.
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