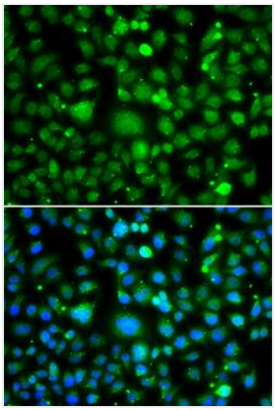
TEK Antibody – Rabbit Polyclonal

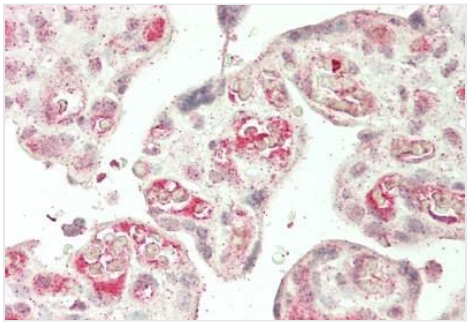
PRODUCT OVERVIEW

Product Name	TEK/TIE2, Polyclonal Antibody
Full Product Name	TEK/TIE2 Rabbit anti-Human Polyclonal Antibody
Product Gene Name	anti-TEK antibody
Product Synonym Names	IHC-plus TEK/TIE2 Antibody; TEK; Angiopoietin-1 receptor; CD202b antigen; CD202B; Endothelial tyrosine kinase; HTIE2; Hyk; Soluble TIE2 variant 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse, Rat, Human
Form/Format	PBS, pH7.3, 0.02% Sodium Azide, 50% Glycerol
Purity/Purification	Affinity purified
Concentration	2.7mg/ml (lot specific)
Specificity	Human TEK/TIE2
Preparation and Storage	Store at -20 degree C. Avoid freeze-thaw cycles.
Molecular Weight	125,830 Da
Chromosome Location	Chromosome: 9; NC_000009.11 (27109147..27230172). Location: 9p21
OMIM	600195
3D Structure	ModBase 3D Structure for Q02763
Target	Human TEK/TIE2
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 500-750 of human TEK (NP_000450.2). EIVTLNYLEPRTEYELCVQLVRRGEGGEGHPGPVRRFTTASIGLPPPRGLNLLPKSQTTLNLTWQPIFPSSEDDFYVEVERRSVQKSDQQNIKVPGNLTSV
Conjugation	Unconjugated
Family	Protein Kinase
Subfamily	Tie/Tek
Applications Tested/Suitable for anti-TEK antibody	Immunofluorescence (IF), Immunohistochemistry (IHC), Immunohistochemistry-Paraffin (IHC-P), Western Blot (WB)
Application Notes for anti-TEK antibody	IF: 1:50-1:100 IHC: 1:50-1:200 IHC-P: 1:100 WB: 1:500-1:2000 The predicted MW is 109kDa/121kDa/125kDa, while the observed MW by Western blot was 126kDa.

Related Product Information for anti-TEK antibody	TIE2 antibody is an unconjugated rabbit polyclonal antibody to TIE2 (TEK) from human. It is reactive with human, mouse and rat. Validated for IF, IHC
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
Searchable Terms for TEK purchase	MBS2402534 is an antibody targeting TEK. Also known as TEK/TIE2 Rabbit anti-Human Polyclonal Antibody. Reactive in Mouse, Rat, Human. Host: R



Immunocytochemistry (ICC)/Immunofluorescence (IF) of anti-TEK antibody
TEK/TIE2 Antibody-Immunofluorescence analysis of MCF7 cell using TEK antibody. Blue: DAPI for nuclear staining.



Immunohistochemistry (IHC) of anti-TEK antibody
TEK/TIE2 Antibody-Human Placenta: Formalin-Fixed, Paraffin-Embedded (FFPE)

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_000450.2
UniProt Primary Accession #	Q02763
UniProt Secondary Accession #	Q5TCU2; Q8IV34; A8K6W0; B4DH20; B4DHD3; D3DRK5; E7EWI2
UniProt Related Accession #	Q02763
GenBank Nucleotide #	NM_000459
NCBI Official Full Name	angiopoietin-1 receptor
NCBI Official Synonym Full Names	TEK tyrosine kinase, endothelial
NCBI Official Symbol	TEK
NCBI Official Synonym Symbols	TIE2; VMCM; 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; hTIE2; p140 TEK; soluble TIE2 variant 1; soluble TIE2 variant 2; endothelial tyrosine kinase; tyrosine-protein kinase receptor TEK; tunica interna endothelial cell kinase; tyrosine-protein kinase receptor TIE-2; tyrosine kinase wi
NCBI Summary for TEK	The TEK receptor tyrosine kinase is expressed almost exclusively in endothelial cells in mice, rats, and humans. This receptor possesses a unique extracellular domain containing 2 immunoglobulin-like loops separated by 3 epidermal growth factor-like repeats that are connected to 3 fibronectin type III-like repeats. The ligand for the receptor is angiopoietin-1. Defects in TEK are associated with inherited venous malformations; the TEK signaling pathway appears to be critical for endothelial cell-smooth muscle cell communication in venous morphogenesis. TEK is closely related to the TIE receptor tyrosine kinase. [provided by RefSeq, Jul 2008]
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.** This work reveals an anti-angiogenic role of STAT1 activation that acts in Tie2-R849W-expressing endothelial cells to impair VEGF-A-mediated STAT3 signaling, bFGF production, and smooth muscle cell recruitment.
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