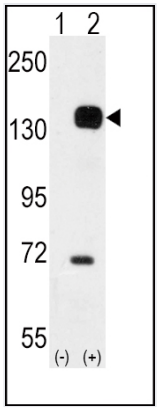
TEK Antibody – Rabbit Polyclonal

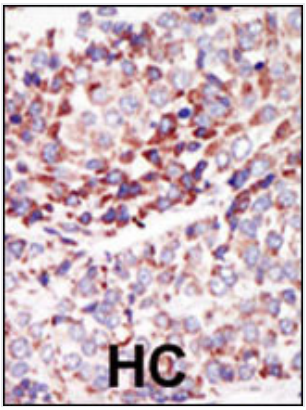
PRODUCT OVERVIEW

Product Name	TEK (TIE2), Polyclonal Antibody
Full Product Name	TEK (TIE2) Antibody (C-term)
Product Gene Name	anti-TEK antibody
Product Synonym Names	Angiopoietin-1 receptor; 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; CD202b; TEK; TIE2; VMCM; VMCM1
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human (Predicted Reactivity: Bovine)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 1.86 (lot specific)
Specificity	This TEK (TIE2) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 758-789 amino acids from the C-terminal region of human TEK (TIE2).
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	TEK (TIE2) peptide (MBS9227162) is used for blocking the activity of TEK (TIE2) antibody (MBS9205459)
Molecular Weight	125830
Immunogen Sequence Positions	758-789
OMIM	600195
3D Structure	ModBase 3D Structure for Q02763
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Product Categories/Family for anti-TEK antibody	Cancer; Cardiovascular; Developmental Biology; Immunology; Signal Transduction
Applications Tested/Suitable for anti-TEK antibody	ELISA (EIA), Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-TEK antibody	WB~~1:1000
Related Product Information for anti-TEK antibody	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.

Product References and Citations for anti-TEK antibody	Cascone, I., et al., Blood 102(7):2482-2490 (2003). DeBusk, L.M., et al., Arthritis Rheum. 48(9):2461-2471 (2003). Poncet, S., et al., Neuropathol Appl Neurobiol 29(4):361-369 (2003). Lee, H.J., et al., Biochem. Biophys. Res. Commun. 304(2):399-404 (2003). Sussman, L.K., et al., Cancer Biol. Ther. 2(3):255-256 (2003).
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 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.
Searchable Terms for TEK purchase	MBS9205459 is an antibody targeting TEK. Also known as TEK (TIE2) Antibody (C-term). Reactive in Human (Predicted Reactivity: Bovine). Host: Rabbit.



Western Blot (WB) of anti-TEK antibody
Western blot analysis of TEK (arrow) using rabbit polyclonal TEK Antibody (C-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the TEK gene (Lane 2) (Origene Technologies).



Immunohistochemistry (IHC) of anti-TEK antibody
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



Immunohistochemistry (IHC) of anti-TEK antibody
Formalin-fixed and paraffin-embedded human testis tissue reacted with TEK Antibody (C-term) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

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_000459.4
NCBI Official Full Name	angiopoietin-1 receptor isoform 1
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; CD_antigen: CD202b
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: Kinase, protein; Membrane protein, integral; EC 2.7.10.1; Protein kinase, tyrosine (receptor); Protein kinase, TK; TK group; Tie family Chromosomal Location of Human Ortholog: 9p21 Cellular Component: microvillus; cell surface; focal adhesion; basolateral plasma membrane; integral to plasma membrane; perinuclear region of cytoplasm; apical plasma membrane; extracellular region; plasma membrane; basal plasma membrane; stress fiber; actin filament; intercellular junction; lipid raft Molecular Function: protein binding; growth factor binding; protein-tyrosine kinase activity; transmembrane receptor protein tyrosine kinase activity; receptor activity; ATP binding; protein kinase activity Biological Process: response to peptide hormone stimulus; peptidyl-tyrosine phosphorylation; response to cAMP; cell-matrix adhesion; protein amino acid autophosphorylation; heart development; positive regulation of cytokine secretion during immune response; signal transduction; cell-cell adhesion; positive regulation of focal adhesion formation; cell-cell signaling; 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; sprouting angiogenesis; regulation of vascular permeability; 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.** increased placental expression in pregnancies with preeclampsia with and without intrauterine growth restriction
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