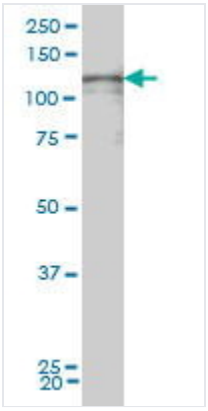
TEK Antibody – Mouse Monoclonal

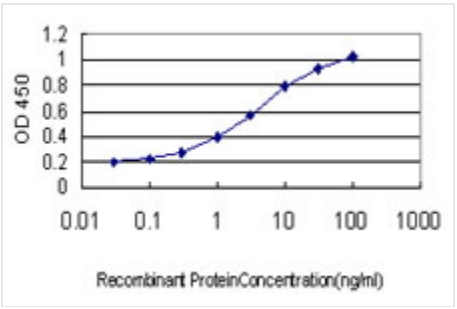
PRODUCT OVERVIEW

Product Name	TEK, Monoclonal Antibody
Full Product Name	TEK (TEK Tyrosine Kinase, Endothelial, CD202B, TIE-2, TIE2, VMCM, VMCM1) (FITC)
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	1A4
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein isothiocyanate (FITC).
Purity/Purification	Purified
Specificity	Recognizes TEK.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Immunogen	TEK (AAH35514, 701aa-800aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	AFSHELVTLPESQAPADLGGGKMLLIAILGSAGMTCLTVLLAFLIILQLKRANVQRRMAQAFQNVREEPAVQFNSGTLALNRKVKNNPDPTIYPVLDWND
Conjugate	FITC
Product Categories/Family for anti-TEK antibody	Antibodies; Tyrosine Kinases
Applications Tested/Suitable for anti-TEK antibody	Western Blot (WB)
Application Notes for anti-TEK antibody	Applications are based on unconjugated antibody.
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. [provided by RefSeq]

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	MBS6174980 is an antibody targeting TEK. Also known as TEK (TEK Tyrosine Kinase, Endothelial, CD202B, TIE-2, TIE2, VMCM, VMCM1) (FITC). Host: Mouse.



Western Blot (WB) of anti-TEK antibody
TEK monoclonal antibody (M03), clone 1A4 Western Blot analysis of TEK expression in U-2 OS (Cat # L022V1).



Testing Data of anti-TEK antibody
Detection limit for recombinant GST tagged TEK is approximately 0.1ng/ml as a capture antibody.

ADDITIONAL DETAILS

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

NCBI GI #	112180440
NCBI GeneID	7010
NCBI Accession #	AAH35514
UniProt Related Accession #	Q02763
NCBI Official Full Name	TEK tyrosine kinase, endothelial
NCBI Official Synonym Full Names	TEK receptor tyrosine kinase
NCBI Official Symbol	TEK
NCBI Official Synonym Symbols	TIE2; VMCM; GLC3E; TIE-2; VMCM1; CD202B
Protein Family	Angiopoietin-1 receptor
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]
Research Articles on TEK	**1.** Endothelial cell glycocalyx breakdown in human sepsis is mediated via Tie2 deactivation by Angpt-2.
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