10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

TEK Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant TEK.
Catalog # AT4205a

Product Information

Application	WB, E
Primary Accession	Q02763
Other Accession	BC035514
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	3F8
Calculated MW	125830

Additional Information

Gene ID	7010
Other 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
Target/Specificity	TEK (AAH35514, 701 a.a. ~ 800 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	TEK Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

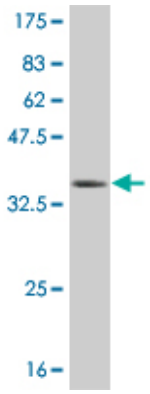
Background

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.

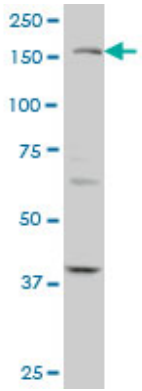
References

Physiogenomic analysis of statin-treated patients: domain-specific counter effects within the ACACB gene on low-density lipoprotein cholesterol? Rua?o G, et al. Pharmacogenomics, 2010 Jul. PMID 20602615.Angiopoietin-2 stimulation of endothelial cells induces alphavbeta3 integrin internalization and degradation. Thomas M, et al. J Biol Chem, 2010 Jul 30. PMID 20519501.Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.Tie1-Tie2 interactions mediate functional differences between angiopoietin ligands. Seegar TC, et al. Mol Cell, 2010 Mar 12. PMID 20227369.Expression of VEGF receptors VEFGR-1 and VEGFR-2, angiopoietin receptors Tie-1 and Tie-2 in chorionic villi tree during early pregnancy. Demir R. Folia Histochem Cytobiol, 2009 Jan. PMID 20164029.

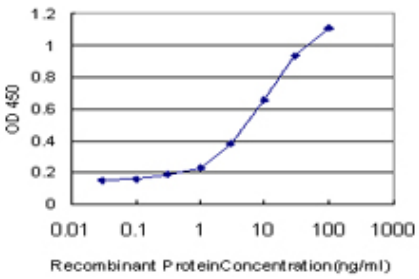
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.41 KDa) .



TEK monoclonal antibody (M02), clone 3F8 Western Blot analysis of TEK expression in A-431 ((Cat # AT4205a)



Detection limit for recombinant GST tagged TEK is approximately 0.1ng/ml as a capture antibody.