

**TEK Antibody (monoclonal) (M02)**  
**Mouse monoclonal antibody raised against a partial recombinant TEK.**  
**Catalog # AT4205a**

## Specification

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### TEK Antibody (monoclonal) (M02) - Product Information

Application	WB, E
Primary Accession	<a href="#">Q02763</a>
Other Accession	<a href="#">BC035514</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	125830

### TEK Antibody (monoclonal) (M02) - 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.

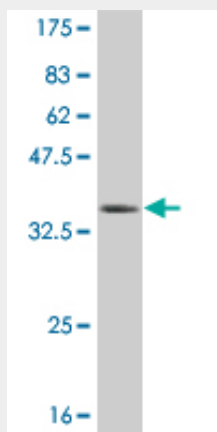
### TEK Antibody (monoclonal) (M02) - Protocols

Provided below are standard protocols that you may find useful for product applications.

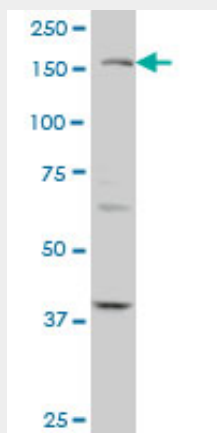
- [Western Blot](#)

- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

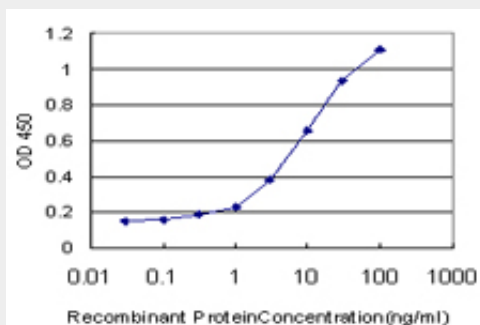
## TEK Antibody (monoclonal) (M02) - Images



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.

**TEK Antibody (monoclonal) (M02) - 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.

**TEK Antibody (monoclonal) (M02) - References**

Physiogenomic analysis of statin-treated patients: domain-specific counter effects within the ACACB gene on low-density lipoprotein cholesterol? Ruafo 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 VEGFR-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.