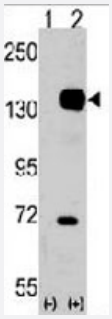
TEK polyclonal antibody

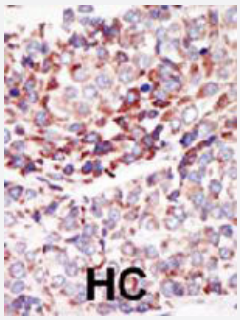
Catalog # PAB3395 Size 400 uL

Applications



Western Blot (Transfected lysate)

Western blot analysis of TEK (arrow) using rabbit TEK polyclonal antibody (Cat # PAB3395). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the TEK gene (Lane 2) (Origene Technologies).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human hepatocellular carcinoma tissue reacted with TEK polyclonal antibody (Cat # PAB3395) , 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. HC = hepatocarcinoma.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of TEK.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to C-terminus of human TEK.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein G purification

Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:50-100) Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

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Gene Info — TEK

Entrez GeneID	7010
Protein Accession#	Q02763
Gene Name	TEK
Gene Alias	CD202B, TIE-2, TIE2, VMCM, VMCM1
Gene Description	TEK tyrosine kinase, endothelial
Omim ID	600195 600221
Gene Ontology	Hyperlink
Gene Summary	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 immunoglobuli n-like loops separated by 3 epidermal growth factor-like repeats that are connected to 3 fibronecti n 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 endothe lial cell-smooth muscle cell communication in venous morphogenesis. TEK is closely related to th e TIE receptor tyrosine kinase. [provided by RefSeq

Other Designations	OTTHUMP00000021167|soluble TIE2 variant 1|soluble TIE2 variant 2

Publication Reference

- Tie2 receptor tyrosine kinase, a major mediator of tumor necrosis factor alpha-induced angiogenesis in rheumatoid arthritis.

  DeBusk LM, Chen Y, Nishishita T, Chen J, Thomas JW, Lin PC.

  Arthritis and Rheumatism 2003 Sep; 48(9):2461.

- Expression of Tie-2 in human peripheral and autonomic nervous system.

  Poncet S, Gasc JM, Janzer RC, Meyer S, Juillerat-Jeanneret L.

  Neuropathology and Applied Neurobiology 2003 Aug; 29(4):361.

- Tie-2-dependent activation of RhoA and Rac1 participates in endothelial cell motility triggered by angiopoietin-1.

  Cascone I, Audero E, Giraudo E, Napione L, Maniero F, Philips MR, Collard JG, Serini G, Bussolino F.

  Blood 2003 Oct; 102(7):2482.

Disease

- Drug Toxicity
- Edema
- Genetic Predisposition to Disease
- Hypercholesterolemia
- Kidney Failure
- Tobacco Use Disorder
- Vascular Malformations