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# anti-TEK antibody (C-Term)

2 Images



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Target:

TEK

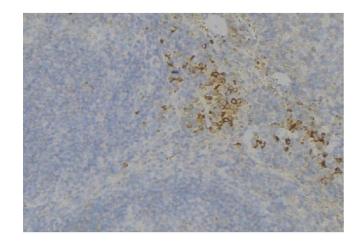
0.101.1011	
Quantity:	100 μL
Target:	TEK
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TEK antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)
Product Details	
Immunogen:	A synthesized peptide derived from human TIE2, corresponding to a region within C-terminal amino acids.
Isotype:	IgG
Specificity:	TIE2 Antibody detects endogenous levels of total TIE2.
Predicted Reactivity:	Pig,Zebrafish,Bovine,Horse,Sheep,Rabbit,Chicken,Xenopus
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink <sup>TM</sup> Coupling Resin (Thermo Fisher Scientific).
Target Details	

Alternative Name:	TEK (TEK Products)
Background:	Description: Tyrosine-protein kinase that acts as cell-surface receptor for ANGPT1, ANGPT2
	and ANGPT4 and regulates angiogenesis, endothelial cell survival, proliferation, migration,
	adhesion and cell spreading, reorganization of the actin cytoskeleton, but also maintenance of
	vascular quiescence. Has anti-inflammatory effects by preventing the leakage of
	proinflammatory plasma proteins and leukocytes from blood vessels. Required for normal
	angiogenesis and heart development during embryogenesis. Required for post-natal
	hematopoiesis. After birth, activates or inhibits angiogenesis, depending on the context. Inhibits
	angiogenesis and promotes vascular stability in quiescent vessels, where endothelial cells have
	tight contacts. In quiescent vessels, ANGPT1 oligomers recruit TEK to cell-cell contacts,
	forming complexes with TEK molecules from adjoining cells, and this leads to preferential
	activation of phosphatidylinositol 3-kinase and the AKT1 signaling cascades. In migrating
	endothelial cells that lack cell-cell adhesions, ANGT1 recruits TEK to contacts with the
	extracellular matrix, leading to the formation of focal adhesion complexes, activation of
	PTK2/FAK and of the downstream kinases MAPK1/ERK2 and MAPK3/ERK1, and ultimately to
	the stimulation of sprouting angiogenesis. ANGPT1 signaling triggers receptor dimerization and
	autophosphorylation at specific tyrosine residues that then serve as binding sites for scaffold
	proteins and effectors. Signaling is modulated by ANGPT2 that has lower affinity for TEK, can
	promote TEK autophosphorylation in the absence of ANGPT1, but inhibits ANGPT1-mediated
	signaling by competing for the same binding site. Signaling is also modulated by formation of
	heterodimers with TIE1, and by proteolytic processing that gives rise to a soluble TEK
	extracellular domain. The soluble extracellular domain modulates signaling by functioning as
	decoy receptor for angiopoietins. TEK phosphorylates DOK2, GRB7, GRB14, PIK3R1, SHC1 and
	TIE1.
	Gene: TEK
Molecular Weight:	126 kDa
Gene ID:	7010
UniProt:	Q02763
Pathways:	RTK Signaling, Growth Factor Binding
Application Details	
Application Notes:	WB 1:1000-3000, IHC 1:200, ELISA(peptide) 1:20000-1:40000, IF/ICC 1:100-1:500

## Handling

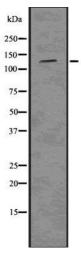
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 $\%$ sodium azide and 50 $\%$ glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

# Images



#### **Immunohistochemistry**

**Image 1.** ABIN6277714 at 1/100 staining Human lymph node tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22¡ãC. An HRP conjugated goat anti-rabbit antibody was used as the secondary



## **Western Blotting**

**Image 2.** Western blot analysis of Tie-2 using HUVEC whole cell lysates