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anti-TEK antibody (AA 401-550)





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OVC	

Quantity:	100 μL
Target:	TEK
Binding Specificity:	AA 401-550
Reactivity:	Human, Mouse, Rat, Cow
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TEK antibody is un-conjugated
Application:	ELISA, Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

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Immunogen:	KLH conjugated synthetic peptide derived from human Tie2
Isotype:	IgG
Cross-Reactivity:	Cow, Human, Mouse, Rat
Predicted Reactivity:	Cow,Pig,Horse
Purification:	Purified by Protein A.

Target Details

Target: TEK

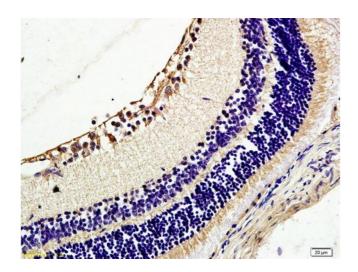
nyms: TIE2, VMCM, TIE-2, VMCM1, CD22B, Angiopoietin-1 receptor, Endothelial tyrosine e, Tunica interna endothelial cell kinase, Tyrosine kinase with Ig and EGF homology ins-2, Tyrosine-protein kinase receptor TEK, Tyrosine-protein kinase receptor TIE-2, hTIE2, EK, TEK ground: Tyrosine-protein kinase that acts as cell-surface receptor for ANGPT1, ANGPT2 NGPT4 and regulates angiogenesis, endothelial cell survival, proliferation, migration,
ins-2, Tyrosine-protein kinase receptor TEK, Tyrosine-protein kinase receptor TIE-2, hTIE2, EK, TEK ground: Tyrosine-protein kinase that acts as cell-surface receptor for ANGPT1, ANGPT2
EK, TEK ground: Tyrosine-protein kinase that acts as cell-surface receptor for ANGPT1, ANGPT2
ground: Tyrosine-protein kinase that acts as cell-surface receptor for ANGPT1, ANGPT2
NGPT4 and regulates angiogenesis, endothelial cell survival, proliferation, migration,
sion and cell spreading, reorganization of the actin cytoskeleton, but also maintenance of
llar quiescence. Has anti-inflammatory effects by preventing the leakage of
lammatory plasma proteins and leukocytes from blood vessels. Required for normal
genesis and heart development during embryogenesis. Required for post-natal
topoiesis. After birth, activates or inhibits angiogenesis, depending on the context. Inhibits
genesis and promotes vascular stability in quiescent vessels, where endothelial cells have
contacts. In quiescent vessels, ANGPT1 oligomers recruit TEK to cell-cell contacts,
ng complexes with TEK molecules from adjoining cells, and this leads to preferential
ition of phosphatidylinositol 3-kinase and the AKT1 signaling cascades. In migrating
helial cells that lack cell-cell adhesions, ANGT1 recruits TEK to contacts with the
cellular matrix, leading to the formation of focal adhesion complexes, activation of
/FAK and of the downstream kinases MAPK1/ERK2 and MAPK3/ERK1, and ultimately to
imulation of sprouting angiogenesis. ANGPT1 signaling triggers receptor dimerization and
hosphorylation at specific tyrosine residues that then serve as binding sites for scaffold
ns and effectors. Signaling is modulated by ANGPT2 that has lower affinity for TEK, can
ote TEK autophosphorylation in the absence of ANGPT1, but inhibits ANGPT1-mediated
ling by competing for the same binding site. Signaling is also modulated by formation of
odimers with TIE1, and by proteolytic processing that gives rise to a soluble TEK
cellular domain. The soluble extracellular domain modulates signaling by functioning as
receptor for angiopoietins. TEK phosphorylates DOK2, GRB7, GRB14, PIK3R1, SHC1 and
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Signaling, Growth Factor Binding

Application Details

	ELISA 1:500-1000
	FCM 1:20-100
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be
	handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months
Publications	
Product cited in:	Li, Liu, Liu, Wang, Zhang, Chen, Hui: "Expression of angiopoietins in central nervous system
	hemangioblastomas is associated with cyst formation." in: Neuroscience letters , Vol. 639, pp.
	120-125, (2017) (PubMed).
	Xiang, Hu, Shen, Liu, Hua, Zan, Zu, Cui, Ye: "Bone marrow mesenchymal stem cells-conditioned
	medium enhances vascular remodeling after stroke in type 2 diabetic rats." in: Neuroscience
	letters , Vol. 644, pp. 62-66, (2017) (PubMed).
	Tekari, Chan, Sakai, Grad, Gantenbein: "Angiopoietin-1 receptor Tie2 distinguishes multipotent
	differentiation capability in bovine coccygeal nucleus pulposus cells." in: Stem cell research &
	therapy , Vol. 7, Issue 1, pp. 75, (2016) (PubMed).

Zhao, Hu, Xiang, Gu, Jin, Hua, Zhang, Liu, Zan, Zhang, Zu, Yang, Shi, Zhu, Xu, Cui, Ye: "Intranasal administration of human umbilical cord mesenchymal stem cells-conditioned medium enhances vascular remodeling after stroke." in: **Brain research**, (2015) (PubMed).

Validation report #029756 for Immunohistochemistry (IHC)



Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded rat retina tissue labeled with Anti TIE2/CD202b Polyclonal Antibody, Unconjugated (ABIN674649) at 1:200 followed by conjugation to the secondary antibody and DAB staining