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### anti-VEGFR2/CD309 antibody (pTyr1059)

**Images** 



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Quantity:	100 μL
Target:	VEGFR2/CD309 (VEGFR2)
Binding Specificity:	pTyr1059
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This VEGFR2/CD309 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC)
Product Details	
Immunogen:	A synthesized peptide derived from human VEGFR2 around the phosphorylation site of Tyr1059.
Isotype:	IgG
Specificity:	Phospho-VEGFR2 (Tyr1059) Antibody detects endogenous levels of VEGFR2 only when phosphorylated at Tyrosine 1059.
Predicted Reactivity:	Pig,Zebrafish,Bovine,Sheep,Rabbit,Dog,Xenopus
Purification:	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Target Details	

#### rarget Details

Target: VEGFR2/CD309 (VEGFR2)

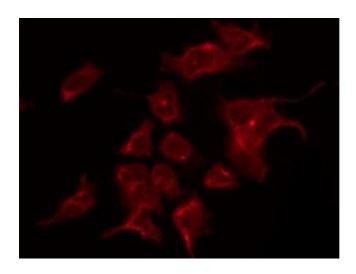
#### Target Details

Background:	Description: Tyrosine-protein kinase that acts as a cell-surface receptor for VEGFA, VEGFC and
	VEGFD. Plays an essential role in the regulation of angiogenesis, vascular development,
	vascular permeability, and embryonic hematopoiesis. Promotes proliferation, survival, migration
	and differentiation of endothelial cells. Promotes reorganization of the actin cytoskeleton.
	Isoforms lacking a transmembrane domain, such as isoform 2 and isoform 3, may function as
	decoy receptors for VEGFA, VEGFC and/or VEGFD. Isoform 2 plays an important role as
	negative regulator of VEGFA- and VEGFC-mediated lymphangiogenesis by limiting the amount
	of free VEGFA and/or VEGFC and preventing their binding to FLT4. Modulates FLT1 and FLT4
	signaling by forming heterodimers. Binding of vascular growth factors to isoform 1 leads to the
	activation of several signaling cascades. Activation of PLCG1 leads to the production of the
	cellular signaling molecules diacylglycerol and inositol 1,4,5-trisphosphate and the activation of
	protein kinase C. Mediates activation of MAPK1/ERK2, MAPK3/ERK1 and the MAP kinase
	signaling pathway, as well as of the AKT1 signaling pathway. Mediates phosphorylation of
	PIK3R1, the regulatory subunit of phosphatidylinositol 3-kinase, reorganization of the actin
	cytoskeleton and activation of PTK2/FAK1. Required for VEGFA-mediated induction of NOS2
	and NOS3, leading to the production of the signaling molecule nitric oxide (NO) by endothelial
	cells. Phosphorylates PLCG1. Promotes phosphorylation of FYN, NCK1, NOS3, PIK3R1,
	PTK2/FAK1 and SRC.
	Gene: KDR
Molecular Weight:	170kDa
Gene ID:	3791
UniProt:	P35968
Pathways:	RTK Signaling, Glycosaminoglycan Metabolic Process, Signaling Events mediated by VEGFR1
	and VEGFR2, Growth Factor Binding, Regulation of long-term Neuronal Synaptic Plasticity,
	VEGF Signaling
Application Details	
Application Notes:	WB 1:500-1:2000, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only
Handling	

#### Handling

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**



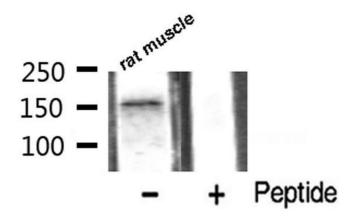
# kDa 1 2 250— 150— 100— 75— 50— 37— 25— 20— 15—

#### Immunofluorescence (fixed cells)

**Image 1.** ABIN6267490 staining K562 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

#### **Western Blotting**

**Image 2.** Western blot analysis of VEGFR2 phosphorylation expression in Na3VO4 treated HepG2 whole cell lysates,The lane on the left is treated with the antigen-specific peptide.



#### **Western Blotting**

**Image 3.** Western blot analysis of VEGFR2 phosphorylation expression in rat muscle tissue lysates, The lane on the right is treated with the antigen-specific peptide.