Store at -20C

## **VEGF Receptor 2 (D5B1) Rabbit**



Orders:

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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

Applications: WB, IP, IHC-P, IF-F, FC- FP	Reactivity: H M R	Sensitivity: Endogenous	<b>MW (kDa):</b> 210, 230	Source/Isotype: Rabbit IgG	<b>UniProt ID:</b> #P35968	Entrez-Gene Id 3791	
Product Usage Information	A	Application			Dilution		
	W	estern Blotting			1:1000		
	Im	nmunoprecipitation			1:200		
	Im	nmunohistochemistry	(Paraffin)		1:800 - 1:3200		
	Im	Immunofluorescence (Frozen)			1:800 - 1:1600		
	FI	Flow Cytometry (Fixed/Permeabilized)			1:200 - 1:400		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
	For	For a carrier free (BSA and azide free) version of this product see product #96141.					
Specificity / Sensi	tivity VE	VEGF Receptor 2 (D5B1) Rabbit mAb recognizes endogenous levels of total VEGF receptor 2 protein.					
Source / Purification  Monoclonal antibody is produced by immunizing carboxy-terminal 150 amino acid residues of hu				· ·	zing animals with a recombinant protein containing the human VEGF receptor 2 protein.		
Background	sig act (Ty lea tyro GF Sig	Vascular endothelial growth factor receptor 2 (VEGFR2, KDR, Flk-1) is a major receptor for VEGF-induced signaling in endothelial cells. Upon ligand binding, VEGFR2 undergoes autophosphorylation and becomes activated (1). Major autophosphorylation sites of VEGFR2 are located in the kinase insert domain (Tyr951/996) and in the tyrosine kinase catalytic domain (Tyr1054/1059) (2). Activation of the receptor leads to rapid recruitment of adaptor proteins, including Shc, GRB2, Pl3 kinase, NCK, and the protein tyrosine phosphatases SHP-1 and SHP-2 (3). Phosphorylation at Tyr1212 provides a docking site for GRB2 binding and phospho-Tyr1175 binds the p85 subunit of Pl3 kinase and PLCy, as well as Shb (1,4,5). Signaling from VEGFR2 is necessary for the execution of VEGF-stimulated proliferation, chemotaxis and sprouting, as well as survival of cultured endothelial cells <i>in vitro</i> and angiogenesis <i>in vivo</i> (6-8).					
Background Refer	2. [ 3. k 4. <sup>-</sup> 5. k 6. k 7. f	<ol> <li>Meyer, M. et al. (1999) <i>EMBO J</i> 18, 363-74.</li> <li>Dougher-Vermazen, M. et al. (1994) <i>Biochem Biophys Res Commun</i> 205, 728-38.</li> <li>Kroll, J. and Waltenberger, J. (1997) <i>J Biol Chem</i> 272, 32521-7.</li> <li>Takahashi, T. et al. (2001) <i>EMBO J</i> 20, 2768-78.</li> <li>Holmqvist, K. et al. (2004) <i>J Biol Chem</i> 279, 22267-75.</li> <li>Karkkainen, M.J. and Petrova, T.V. (2000) <i>Oncogene</i> 19, 5598-605.</li> <li>Rahimi, N. et al. (2000) <i>J Biol Chem</i> 275, 16986-92.</li> <li>Claesson-Welsh, L. (2003) <i>Biochem Soc Trans</i> 31, 20-4.</li> </ol>					

**Species Reactivity** 

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer** 

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key** 

WB: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-F: Immunofluorescence (Frozen) FC-FP: Flow Cytometry (Fixed/Permeabilized)

**Cross-Reactivity Key** 

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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**Limited Uses** 

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