e at -20C	VEGF Receptor 2 Antibody			
Store (Orders:	877-616-CELL (2355) orders@cellsignal.com	
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247		Web:	info@cellsignal.com cellsignal.com	
#		3 Trask Lane Danvers Ma	ssachusetts 01923 USA	

For Research Use Only	/ Not for Use in D	Diagnostic Procedures
FOI NESCAICH USE OII		nagnostic Frocedures.

Applications: WB	Reactivity: H M	Sensitivity: Transfected Only	MW (kDa): 210, 230	Source: Rabbit	UniProt ID: #P35968	Entrez-Gene Id: 3791	
Product Usage Information		Application Western Blotting			Dilution 1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity / Sensitivity		VEGF Receptor 2 Antibody detects transfected levels of VEGF-2 receptors. It does not cross-react with other members of VEGF receptor family.					
Species predicted react based on 10 sequence homolo	0%	Rat					
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy-terminal sequence of human VEGF receptor 2. Antibodies are purified by protein A and peptide affinity chromatography.					
Background		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, PI3 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 PI3 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 References		 Meyer, M. et al. (1999) <i>EMBO J</i> 18, 363-74. Dougher-Vermazen, M. et al. (1994) <i>Biochem Biophys Res Commun</i> 205, 728-38. Kroll, J. and Waltenberger, J. (1997) <i>J Biol Chem</i> 272, 32521-7. Takahashi, T. et al. (2001) <i>EMBO J</i> 20, 2768-78. Holmqvist, K. et al. (2004) <i>J Biol Chem</i> 279, 22267-75. Karkkainen, M.J. and Petrova, T.V. (2000) <i>Oncogene</i> 19, 5598-605. Rahimi, N. et al. (2000) <i>J Biol Chem</i> 275, 16986-92. Claesson-Welsh, L. (2003) <i>Biochem Soc Trans</i> 31, 20-4. 					
Species Reactivity	/ Sp	pecies reactivity is deter	rmined by testing i	n at least one appro	ved application (e.g., we	stern blot).	
Western Blot Buffer			FANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, veen® 20 at 4°C with gentle shaking, overnight.				
Applications Key	v	VB: Western Blotting					
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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