1/1/24, 7:04 AM Revision 5

t2479 Store at -20C mAp	2 (55B11) Rat	obit			CHNOLOGY® 877-616-CELL (2355 orders@cellsignal.com 877-678-TECH (8324 info@cellsignal.com
			3 Trask L	ane Danvers Ma	ssachusetts 01923 USA
For Research Use Only. Not for Use Only. Not for Use Only. Applications: Reactiv WB, IP, IHC-P, IF-F, IF- H M IC IC		MW (kDa): 210, 230	Source/Isotype: Rabbit IgG	UniProt ID: #P35968	Entrez-Gene Id: 3791
Product Usage Information	Application Western Blotting Immunoprecipitation Immunohistochemistry (Paraffin) Immunofluorescence (Frozen) Immunofluorescence (Immunocytochemistry)		nistry)	Dilution 1:1000 1:100 1:4000 - 1:16000 1:200 - 1:800 1:200 - 1:800	
Storage	Supplied in 10 mM sodi 0.02% sodium azide. Si	um HEPES (pH tore at –20°C. Do	7.5), 150 mM NaCl, 100 o not aliquot the antibody	µg/ml BSA, 50% gl	
Specificity / Sensitivity	For a carrier free (BSA and azide free) version of this pro VEGF Receptor 2 (55B11) Rabbit Monoclonal Antibody protein. This antibody does not cross-react with other far		clonal Antibody detects	endogenous levels	of VEGF receptor 2
Species predicted to react based on 100% sequence homology:	Bovine				
Source / Purification			nunizing animals with a less of human VEGF rece		containing the
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	Species reactivity is dete	ermined by testing	g in at least one approve	ed 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					

https://www.cellsignal.com/datasheet.jsp?productId=2479&images=0&protocol=0

1/1/24, 7:04 AM	VEGF Receptor 2 (55B11) Rabbit mAb (#2479) Datasheet Without Images Cell Signaling Technology WB: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-F: Immunofluorescence (Frozen) IF-IC: Immunofluorescence (Immunocytochemistry)
Cross-Reactivity Ke	 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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