

VEGF Receptor 2 (D5B1) Rabbit mAb (Alexa Fluor® 555 Conjugate)



Orders: 877-616-CELL (2355) orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: IF-F	Reactivity: H M R	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P35968	Entrez-Gene Id: 3791
Product Usage Information		Application Immunofluorescence (Fi	rozen)		Dilution 1:50
Storage		Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.			
Specificity/Sensitivity		VEGF Receptor 2 (D5B1) Rabbit mAb (Alexa Fluor [®] 555 Conjugate) recognizes endogenous levels of total VEGF receptor 2 protein.			
Source / Purification		Monoclonal antibody is produced by immunizing animals with a recombinant protein containing the carboxy-terminal 150 amino acid residues of human VEGF receptor 2 protein.			
Description		This Cell Signaling Technology antibody is conjugated to Alexa Fluor [®] 555 fluorescent dye and tested in-house for immunofluorescent analysis in rat cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated VEGF Receptor 2 (D5B1) Rabbit mAb #9698.			
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) EMBO J 18, 363-74. Dougher-Vermazen, M. et al. (1994) Biochem Biophys Res Commun 205, 728-38. Kroll, J. and Waltenberger, J. (1997) J Biol Chem 272, 32521-7. Takahashi, T. et al. (2001) EMBO J 20, 2768-78. Holmqvist, K. et al. (2004) J Biol Chem 279, 22267-75. Karkkainen, M.J. and Petrova, T.V. (2000) Oncogene 19, 5598-605. Rahimi, N. et al. (2000) J Biol Chem 275, 16986-92. Claesson-Welsh, L. (2003) Biochem Soc Trans 31, 20-4. 			

Species Reactivity

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

Applications Key IF-F: Immunofluorescence (Frozen)

Cross-Reactivity Key H: Human M: Mouse R: Rat

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