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VEGF Receptor 2 (D5B1) Rabbit mAb (Alexa Fluor® 647 Conjugate)


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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: FC-FP	Reactivity: H M R	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P35968	Entrez-Gene Id: 3791
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Product Usage Information	Application Flow Cytometry (Fixed/Permeabilized)	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® 647 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.	
Product Description	This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 647 fluorescent dye and tested in-house for direct flow cytometry analysis in human 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 PLCγ, 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	1. Meyer, M. et al. (1999) <i>EMBO J</i> 18, 363-74. 2. Dougher-Vermazen, M. et al. (1994) <i>Biochem Biophys Res Commun</i> 205, 728-38. 3. Kroll, J. and Waltenberger, J. (1997) <i>J Biol Chem</i> 272, 32521-7. 4. Takahashi, T. et al. (2001) <i>EMBO J</i> 20, 2768-78. 5. Holmqvist, K. et al. (2004) <i>J Biol Chem</i> 279, 22267-75. 6. Karkkainen, M.J. and Petrova, T.V. (2000) <i>Oncogene</i> 19, 5598-605. 7. Rahimi, N. et al. (2000) <i>J Biol Chem</i> 275, 16986-92. 8. Claesson-Welsh, L. (2003) <i>Biochem Soc Trans</i> 31, 20-4.	

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