VEGF Receptor 2 (D5B1) Rabbit mAb (Alexa Fluor® 488 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	
Product Usage Information	Ар	plication			Dilution	
	Flo	w Cytometry (Fixe	ed/Permeabilized)	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 / Sensiti	- ,	GF Receptor 2 (D5 GF receptor 2 prote	,	188 Conjugate) recognizes endog	enous levels of total	
Source / Purificatio		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	hou	This Cell Signaling Technology antibody is conjugated to Alexa Fluor [®] 488 fluorescent dye and tested inhouse 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	sign activ (Tyr lead tyro: GRI Sigr	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 Refere	ckground References 1. Meyer, M. et al. (1999) <cite>EMBO J</cite> 18, 363-74. 2. Dougher-Vermazen, M. et al. (1994) <cite>Biochem Biophys Res Commun</cite> 205, 728-38.					

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- 4. Takahashi, T. et al. (2001) <cite>EMBO J</cite> 20, 2768-78.
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- 6. Karkkainen, M.J. and Petrova, T.V. (2000) <cite>Oncogene</cite> 19, 5598-605.
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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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