3628

## VEGF Receptor 2 (55B11) Rabbit mAb (Alexa Fluor<sup>®</sup> 647 Conjugate)



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Reactivity: H M	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P35968	Entrez-Gene Id: 3791		
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 th antibody. Protect from light. Do not freeze.				
Specificity/Sensitivity		VEGF Receptor 2 (55B11) Rabbit mAb (Alexa Fluor <sup>®</sup> 647 Conjugate) detects endogenous levels of total VEGF receptor 2 protein. This antibody does not cross-react with other family members.				
Species predicted to react based on 100% sequence homology		Bovine				
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. This antibody was conjugated to Alexa Fluor <sup>®</sup> 647 under optimal conditions with an F/P ratio of 2-6. The Alexa Fluor <sup>®</sup> 647 dye is maximally excited by red light (e.g. 633 nm He-Ne laser). Antibody conjugates of the Alexa Fluor <sup>®</sup> 647 dye produce bright far-red-fluorescence emission, with a peak at 665 nm.				
Description		This Cell Signaling Technology (CST) antibody is conjugated to Alexa Fluor <sup>®</sup> 647 fluorescent dye and tested in-house for direct flow cytometric analysis in human cells. The unconjugated VEGF Receptor 2 (55B11) Rabbit mAb #2479 reacts with human and mouse VEGF receptor 2 protein. CST expects that VEGF Receptor 2 (55B11) Rabbit mAb (Alexa Fluor <sup>®</sup> 647 Conjugate) will also recognize VEGF receptor 2 in these species.				
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 Refe	rences	<ol> <li>Meyer, M. et al. (1999) <i>EMBO J</i> 18, 363-74.</li> <li>Dougher-Vermazen, M. et al. (1994) <i>Biochem Biophys Res Commun</i> 205, 728-38.</li> <li>Kroll, J. and Waltenberger, J. (1997) <i>J Biol Chem</i> 272, 32521-7.</li> <li>Takahashi, T. et al. (2001) <i>EMBO J</i> 20, 2768-78.</li> <li>Holmqvist, K. et al. (2004) <i>J Biol Chem</i> 279, 22267-75.</li> <li>Karkkainen, M.J. and Petrova, T.V. (2000) <i>Oncogene</i> 19, 5598-605.</li> <li>Rahimi, N. et al. (2000) <i>J Biol Chem</i> 275, 16986-92.</li> <li>Claesson-Welsh, L. (2003) <i>Biochem Soc Trans</i> 31, 20-4.</li> </ol>				
Species Reactivity	v	Species reactivity is determi	ined by testing in at l	east one approved application (e.g., western blot).		
Cross-Reactivity I		H: Human M: Mouse				
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