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VEGF Receptor 2 (55B11) Rabbit mAb (Sepharose Bead[®] Conjugate)



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Applications: IP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 210, 230	Source/Isotype: Rabbit IgG	UniProt ID: #P35968	Entrez-Gene Id: 3791
Product Usage Information		ApplicationDilutionImmunoprecipitation1:20				
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol. Store at –20°C. Do not aliquot the antibodies.				
Specificity/Sensitivity		VEGF Receptor 2 (55B11) Rabbit mAb (Sepharose [®] Bead Conjugate) detects endogenous levels of 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 protein.				
Description		This Cell Signaling Technology antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated Sepharose [®] beads. VEGF Receptor 2 (55B11) Rabbit mAb (Sepharose [®] Bead Conjugate) is useful for immunoprecipitation assays. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated VEGF Receptor 2 (55B11) Rabbit mAb #2479.				
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 PLC _Y , 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 Reacti	vity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).
Applications Key		IP: Immunoprecipitation				
Cross-Reactivity Key		H: Human M: Mouse				
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