

#5168 Store at -20°C

VEGF Receptor 2 (55B11) Rabbit mAb (Sephacrose Bead® Conjugate)


Cell Signaling
TECHNOLOGY®

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
IP	H M	Endogenous	210, 230	Rabbit IgG	#P35968	3791

Product Usage Information	Application	Dilution
	Immunoprecipitation	1:20
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 (Sephacrose® 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.	
Product 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 (Sephacrose® 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.	

MW (kDa) 210, 230

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	<ol style="list-style-type: none"> 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	IP: Immunoprecipitation
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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