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Phospho-VEGF Receptor 2 (Tyr1175) (D5B11) Rabbit mAb



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Applications: W, IP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 230	Source/Isotype: Rabbit IgG	UniProt ID: #P35968	Entrez-Gene Id: 3791
Product Usage Information	•	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:100	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Phospho-VEGF Receptor 2 (Tyr1175) (D5B11) Rabbit mAb detects endogenous levels of VEGF receptor 2 protein only when phosphorylated at Tyr1175. This antibody may cross-react with other tyrosine-phosphorylated receptor tyrosine kinases, including FLT3.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr1175 of human VEGF receptor 2.				
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 Reactivity		Species reactivity is determined by testing in at least one approved application (e.g., western blot).				
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting IP: Immunoprecipitation				
Cross-Reactivity Key		H: Human M: Mouse				
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