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



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Applications: WB, IP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 230	Source/Isotype: Rabbit IgG	UniProt ID: #P35968	Entrez-Gene Id 3791	
Product Usage Information	Ар	plication		Dilution			
	We	stern Blotting		1:1000			
	lmı	munoprecipitation			1:100		
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/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 / Purifica		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr1175 of human VEGF receptor 2.					
Background	sign activ (Tyr leac 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).					
2. Dougher-Verma. 3. Kroll, J. and Wal 4. Takahashi, T. et 5. Holmqvist, K. et			99) EMBO J 18, 363-74. n, M. et al. (1994) Biochem Biophys Res Commun 205, 728-38. hberger, J. (1997) J Biol Chem 272, 32521-7. (2001) EMBO J 20, 2768-78. (2004) J Biol Chem 279, 22267-75. nd Petrova, T.V. (2000) Oncogene 19, 5598-605.				

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.

7. Rahimi, N. et al. (2000) J Biol Chem 275, 16986-92. 8. Claesson-Welsh, L. (2003) Biochem Soc Trans 31, 20-4.

Applications Key

WB: Western Blotting 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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