Phospho-VEGF Receptor 2 (Tyr1175) (19A10) Rabbit mAb



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Applications: WB	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			Dilution 1:1000			
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 / Sensitiv		Phospho-VEGF Receptor-2 (Tyr1175) (19A10) Rabbit mAb detects endogenous levels of VEGFR-2 proteins only when phosphorylated at tyrosine 1175. This antibody may cross-react with VEGFR1.					
Source / Purification	-	noclonal antibody is dues surrounding Ty		nunizing animals with a s VEGF receptor-2.	synthetic phosphopep	otide corresponding to	
Background	sign activ (Tyr lead tyro: GRE 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).					
Background Refere	2. D 3. K 4. Ta 5. H 6. K 7. R	 Meyer, M. et al. (1999) EMBO J 18, 363-74. Dougher-Vermazen, M. et al. (1994) Biochem Biophys Res Commun 205, 728-38. Kroll, J. and Waltenberger, J. (1997) J Biol Chem 272, 32521-7. Takahashi, T. et al. (2001) EMBO J 20, 2768-78. Holmqvist, K. et al. (2004) J Biol Chem 279, 22267-75. Karkkainen, M.J. and Petrova, T.V. (2000) Oncogene 19, 5598-605. Rahimi, N. et al. (2000) J Biol Chem 275, 16986-92. Claesson-Welsh, L. (2003) Biochem Soc Trans 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

WB: Western Blotting

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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