Phospho-VEGF Receptor 2 (Tyr951) (7H11) Mouse mAb



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Applications: W	Reactivity: H M	Sensitivity: Transfected Only	MW (kDa): 230	Source/Isotype: Mouse IgG1	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 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 (Tyr951) (7H11) Mouse mAb detects transfected levels of VEGFR-2 only when phosphorylated at tyrosine 951.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Tyr951 of human VEGFR-2.				
Background		signaling in endothelia becomes activated (1). domain (Tyr951/996) a receptor leads to rapid protein tyrosine phosp for GRB2 binding and (1,4,5). Signaling from	al cells. Upon ligan Major autophosp Ind in the tyrosine I recruitment of ac phatases SHP-1 an phospho-Tyr1175 VEGFR2 is necessa	otor 2 (VEGFR2, KDR, Flk-1 d binding, VEGFR2 under horylation sites of VEGFR kinase catalytic domain of daptor proteins, including d SHP-2 (3). Phosphoryla binds the p85 subunit of ary for the execution of Vervival of cultured endother	rgoes autophospho 2 are located in the (Tyr1054/1059) (2). 3 Shc, GRB2, PI3 kir tion at Tyr1212 pro PI3 kinase and PLC EGF-stimulated pro	rylation and e kinase insert Activation of the lase, NCK, and the vides a docking site γ, as well as Shb liferation,
Background References		 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 Reactiv	ity	Species reactivity is de	termined by testir	ng in at least one approve	ed application (e.g.,	western blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat				

dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human M: Mouse

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