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## Phospho-VEGF Receptor 2 (Tyr951) (15D2) Rabbit mAb



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Applications: WB	Reactivity: H M	Sensitivity: Endogenous	<b>MW (kDa):</b> 230	Source/Isotype: Rabbit IgG	UniProt ID: #P35968	Entrez-Gene Id: 3791
Product Usage Information	Ар	plication		Dilution		
	We	stern Blotting			1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at $-20^{\circ}$ C. Do not aliquot the antibody.				
Specificity / Sensitiv	VEC	Phospho-VEGF Receptor 2 (Tyr951) (15D2) Rabbit Monoclonal Antibody detects endogenous levels of VEGF receptor 2 only when phosphorylated at Tyr951. The antibody may slightly cross-react with activated VEGF receptor 1, but not with other related tyrosine phosphorylated tyrosine kinases.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr951 of human VEGF receptor 2.				
Background	sign activ (Tyr lead 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).				
Background Referen	2. D 3. K 4. Ta 5. H 6. K 7. R	roll, J. and Waltenb akahashi, T. et al. (2 olmqvist, K. et al. (2 arkkainen, M.J. and ahimi, N. et al. (200	M. et al. (1994) E erger, J. (1997) J 2001) EMBO J 20 2004) J Biol Chen I Petrova, T.V. (20 0) J Biol Chem 2	Biochem Biophys Res Commun 205, 728-38. J Biol Chem 272, 32521-7. 0, 2768-78. rm 279, 22267-75. 2000) Oncogene 19, 5598-605.		

**Species Reactivity** Species reactivity is determined by testing in at least one approved application (e.g., western blot).

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

Western Blot Buffer

**Patents** 

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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