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VEGF Receptor 1 Antibody



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Applications: WB	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 180	Source: Rabbit	UniProt ID: #P17948	Entrez-Gene Id 2321	
Product Usage Information	Ар	Application			Dilution		
	We	estern Blotting		1:1000			
Storage	•	oplied in 10 mM sodi C. Do not aliquot the	(1	i), 150 mM NaCl, 10	00 μg/ml BSA and 50% ç	glycerol. Store at –	
Specificity / Sensiti		VEGF Receptor 1 Antibody detects endogenous levels of VEGFR-1. This antibody does not cross-react with VEGFR-2 and -3 nor does it detect the sVEGFR-1 variant.					
Source / Purification	n Poly	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to					

Source / Purification Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Thr1307 of human VEGFR-1. Antibodies are purified by protein A and peptide affinity

chromatography.

Background The vascular endothelial growth factor (VEGF) receptor (VEGFR-1, Flt-1) is a 180 kDa receptor tyrosine

kinase belonging to the VEGFR (Flt) family (1-3). The receptor is comprised of seven extracellular Ig-like domains, a single transmembrane region and cytoplasmic tail containing the active kinase domain (1,2). VEGFR-1 plays an important role in endothelial cell function and normal vascular development, as well as in hematopoietic function (2,3). VEGF-A is a high affinity ligand of VEGFR-1. VEGFR-1 also binds VEGF-B and PLGF (2). Ligand binding results in very little VEGFR-1 kinase activation, and VEGFR-1/VEGF-A binding negatively regulates VEGF function by diverting the growth factor from other functional VEGF

receptors (3).

Two forms of the VEGF receptor 1 are found in cells. Both the membrane-bound form described above and a soluble isoform of VEGFR-1 (sVEGFR-1 or sFlt-1) bind the VEGF ligand with high affinity (4). Full-length VEGFR-1 and the truncated, soluble protein are encoded by the same gene and are generated through differential splicing. Both proteins are associated with an array of human disorders and are potential candidates for therapeutic study (5).

Background References

- 1. Ferrara, N. et al. (2003) Nat Med 9, 669-76.
- 2. Clauss, M. (2000) Semin Thromb Hemost 26, 561-9.
- 3. Claesson-Welsh, L. (2003) Biochem Soc Trans 31, 20-4.
- 4. Kendall, R.L. et al. (1996) Biochem Biophys Res Commun 226, 324-8.
- 5. Shibuya, M. (2006) Angiogenesis 9, 225-30; discussion 231.

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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Limited Uses

VEGF Receptor 1 Antibody (#2893) Datasheet Without Images Cell Signaling Technology

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