

Rabbit VEGFR-2 Polyclonal Antibody | anti-VEGFR-2 antibody

VEGFR-2 (Tyr-801)[conserved site], phospho-specific Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71731	Rabbit	Human, Rat, Mouse	Immunocytochemistry, ELISA, Western Blot

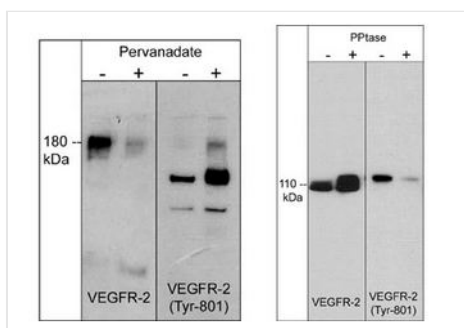
PRODUCT SYNONYMS

VEGFR-2; Polyclonal Antibody; VEGFR-2 (Tyr-801)[conserved site]; phospho-specific Antibody; phospho-specific; anti-VEGFR-2 antibody

PRODUCT SPECIFICATIONS

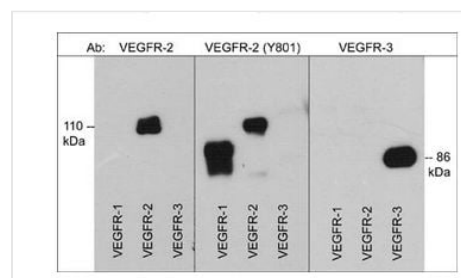
Host	Rabbit
Reactivity	Human, Rat, Mouse
Clonality	Polyclonal
Specificity	This antibody was affinity purified with phospho-VEGFR-2 (Tyr-801) peptide. The purified antibody detects a 180kDa* band corresponding to VEGFR-2 in western blots of human endothelial cells treated with pervanadate, and shows strong reactivity toward recombinant human VEGFR-2. This reactivity is removed by alkaline phosphatase treatment. In addition, the antibody detects the conserved site in VEGFR-1 (Tyr-794). The antibody also works for immunofluorescent staining of VEGFR-2 in HUVEC cells.
Form/Format	Rabbit polyclonal, affinity-purified antibody is supplied in 100ul phosphate-buffered saline, 50% glycerol, 1mg/ml BSA, and 0.05% sodium azide.
Applicable Applications for anti-VEGFR-2 antibody	ICC (Immunocytochemistry), ELISA, WB (Western Blot)
Immunogen	Phospho-VEGFR-2 (Tyr-801) peptide (coupled to carrier protein) corresponding to amino acids surrounding Tyr-801 in human VEGFR-2. This sequence has high homology to the conserved site in rat and mouse VEGFR-2, and has significant homology to the conserved sites in VEGFR-1 (Tyr-794) and VEGFR-3 (Tyr-812).
Preparation and Storage	Store at -20 degree C. Stable for 1 year.

IMAGES



WB (Western Blot)

Left: Western blot image of HUVEC cells untreated (-) or treated with pervanadate (1mM) for 30 min. (+). Right: Western blot image of GST-recombinant VEGFR-2 kinase without (-) or with (+) alkaline phosphatase treatment. Both sets of blots were probed with rabbit polyclonal anti-VEGFR-2 (a.a. 1304-1317) or anti-VEGFR-2 (Tyr-801).



WB (Western Blot)

Western blot image of GST-recombinant human VEGFR-1 (89kDa), VEGFR-2 (110kDa), and VEGFR-3 (86kDa) C-terminal regions. The blots were probed with rabbit polyclonal anti-VEGFR-2 (a.a. 1304-1317), anti-VEGFR-2 (Tyr-801, conserved site), and anti-VEGFR-3 (a.a. 1285-1298).

ADDITIONAL INFORMATION

Related Product Information for anti-VEGFR-2 antibody	Vascular endothelial growth factor receptor-2 (VEGFR-2/Flk-1/KDR) is the primary receptor for VEGF in endothelial cells. Other VEGFR family members, VEGFR-1 (Flt-1) and VEGFR-3 (Flt-4), can also transduce the intracellular signals of VEGF. However, the role of VEGFR-1 is observed mainly during embryonic angiogenesis and VEGFR-3 signaling may be restricted to specific types of endothelial cells. Major autophosphorylation sites of VEGFR-2 are located in the kinase insert domain (Tyr-951/996) and in the tyrosine kinase catalytic domain (Tyr-1054/1059). Other sites, Tyr-1175 and Tyr-1212 provide docking sites for downstream signaling molecules. Activation of VEGFR-2 also phosphorylates Tyr-801, leading to PI3-kinase-Akt activation and increases in endothelial nitric oxide synthase activity. Phosphorylation of multiple sites in VEGFR-2 is required for downstream activation of several signaling pathways that control proliferation, chemotaxis, and sprouting during angiogenesis.
References	Garcia Blanes, M. et al. (2007) J Biol. Chem. 282(14):10660. Kiselyov, A. et al. (2007) Expert Opin. Investig. Drugs 16(1):83. Robinson, C.J. & Stringer, S.E. (2001) J. Cell Sci.114:853. Meyer, M. et al. (1999) EMBO J. 18:363. Dougher-Vermazen, M. et al. (1994) Bioch Biophys Res Com. 205:728.

NCBI AND UNIPROT INFORMATION

NCBI GI #	11321597
NCBI GeneID	3791
NCBI Accession #	NP_002244.1
NCBI GenBank Nucleotide #	NM_002253.2
UniProt Accession #	P35968; O60723; Q14178; A2RRS0; B5A925; C5IFA0
Molecular Weight	151,527 Da
NCBI Official Full Name	vascular endothelial growth factor receptor 2
NCBI Official Synonym Full Names	kinase insert domain receptor (a type III receptor tyrosine kinase)
NCBI Official Symbol	KDR
NCBI Official Synonym Symbols	FLK1; CD309; VEGFR; VEGFR2
NCBI Protein Information	vascular endothelial growth factor receptor 2; soluble VEGFR2; fetal liver kinase 1; fetal liver kinase-1; protein-tyrosine kinase receptor Flk-1; tyrosine kinase growth factor receptor
UniProt Protein Name	Vascular endothelial growth factor receptor 2
UniProt Gene Name	KDR
UniProt Synonym Gene Names	FLK1; VEGFR2; VEGFR-2; FLK-1; KDR
UniProt Entry Name	VGFR2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/vegfr-2-antibody-immunocytochemistry-western-blot-elisa/71731>