

Rabbit anti-Human, Mouse VEGFR3 Polyclonal Antibody | anti-VEGFR3 antibody

VEGFR3 Antibody

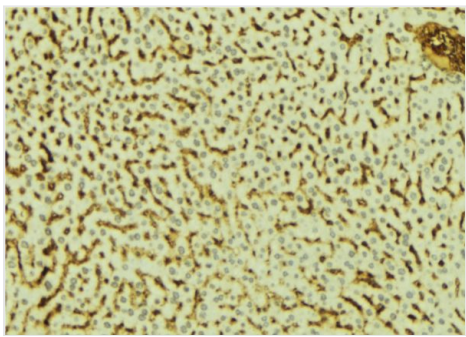
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA323536	Rabbit	Human, Mouse	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

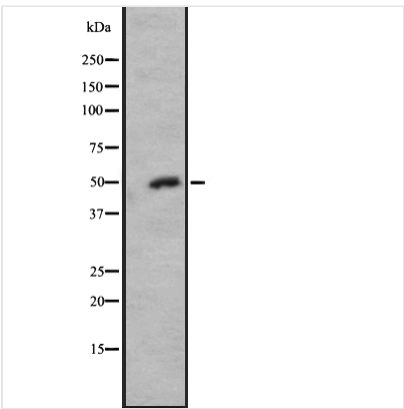
VEGFR3; Polyclonal Antibody; VEGFR3 Antibody; EC 2.7.10.1; flt 4; FLT-4; FLT4; FLT41; Fms related tyrosine kinase 4; Fms-like tyrosine kinase 4; LMPH1A; PCL; Soluble VEGFR3 variant 1; Soluble VEGFR3 variant 2; Soluble VEGFR3 variant 3; Tyrosine protein kinase receptor FLT4; Tyrosine-protein kinase receptor FLT4; Vascular endothelial growth factor receptor 3; Vascular endothelial growth factor receptor 3 precursor; VEGF R3; VEGFR 3; VEGFR-3; VGFR3_HUMAN; anti-VEGFR3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	VEGFR3 antibody detects endogenous levels of total VEGFR3
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1298
Applicable Applications for anti-VEGFR3 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Membrane.
Tissue Specificity	Detected in endothelial cells (at protein level). Widely expressed. Detected in fetal spleen, lung and brain. Detected in adult liver, muscle, thymus, placenta, lung, testis, ovary, prostate, heart, and kidney.
Conjugation	Unconjugated



IHC (Immunohistochemistry)
AAA323536 at 1/100 staining Mouse liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of VEGFR3 expression in A431 whole cell lysate, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-VEGFR3 antibody	Description: Receptor for VEGFC. Has a tyrosine-protein kinase activity. Function: Tyrosine-protein kinase that acts as a cell-surface receptor for VEGFC and VEGFD, and plays an essential role in adult lymphangiogenesis and in the development of the vascular network and the cardiovascular system during embryonic development. Promotes proliferation, survival and migration of endothelial cells, and regulates angiogenic sprouting. Signaling by activated FLT4 leads to enhanced production of VEGFC, and to a lesser degree VEGFA, thereby creating a positive feedback loop that enhances FLT4 signaling. Modulates KDR signaling by forming heterodimers. The secreted isoform 3 may function as a decoy receptor for VEGFC and/or VEGFD and play an important role as a negative regulator of VEGFC-mediated lymphangiogenesis and angiogenesis. Binding of vascular growth factors to isoform 1 or isoform 2 leads to the activation of several signaling cascades; isoform 2 seems to be less efficient in signal transduction, because it has a truncated C-terminus and therefore lacks several phosphorylation sites. Mediates activation of the MAPK1/ERK2, MAPK3/ERK1 signaling pathway, of MAPK8 and the JUN signaling pathway, and of the AKT1 signaling pathway. Phosphorylates SHC1. Mediates phosphorylation of PIK3R1, the regulatory subunit of phosphatidylinositol 3-kinase. Promotes phosphorylation of MAPK8 at 'Thr-183' and 'Tyr-185', and of AKT1 at 'Ser-473'. Subunit Structure: Interacts with VEGFC and VEGFD. Monomer in the absence of bound VEGFC or VEGFD. Homodimer in the presence of bound VEGFC or VEGFD. Can also form a heterodimer with KDR. Interacts with PTPN14; the interaction is enhanced by stimulation with VEGFC. Interacts with CRK, GRB2, PTK2/FAK1, SHC1, PIK3R1 and PTPN11/SHP-2. Identified in a complex with SRC and ITGB1. Post-translational Modifications: Autophosphorylated on tyrosine residues upon ligand binding. Autophosphorylation occurs in trans, i.e. one subunit of the dimeric receptor phosphorylates tyrosine residues on the other subunit. Phosphorylation in response to H2O2 is mediated by a process that requires SRC and PRKCD activity. Phosphorylation at Tyr-1068 is required for autophosphorylation at additional tyrosine residues. Phosphorylation at Tyr-1063 and Tyr-1337 is important for interaction with CRK and subsequent activation of MAPK8. Phosphorylation at Tyr-1230, Tyr-1231 and Tyr-1337 is important for interaction with GRB2 and subsequent activation of the AKT1 and MAPK1/ERK2 and/or MAPK3/ERK1 signaling pathways. In response to endothelial cell adhesion onto collagen, can also be phosphorylated in the absence of FLT4 kinase activity by SRC at Tyr-830, Tyr-833, Tyr-853, Tyr-1063, Tyr-1333, and Tyr-1337. Similarity: The first and second Ig-like C2-type (immunoglobulin-like) domains are sufficient for VEGFC binding (PubMed:23878260). The fourth and fifth Ig-like C2-type domains are sufficient for homodimerization (PubMed:23878260). The fifth and seventh Ig-like C2-type domains are required for autophosphorylation and further activation (PubMed:23878260). Belongs to the protein kinase superfamily. Tyr protein kinase family. CSF-1/PDGF receptor subfamily.
---	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	103472027
NCBI GeneID	2324
NCBI Accession #	NP_002011.2

NCBI GenBank Nucleotide #	NM_002020.4
UniProt Accession #	P35916 ; Q16067 ; Q86W07 ; Q86W08 ; A8K6L4 ; B5A926
Molecular Weight	Observed: 50 kDa Predicted: 153 kDa
NCBI Official Full Name	vascular endothelial growth factor receptor 3 isoform 2
NCBI Official Synonym Full Names	fms related tyrosine kinase 4
NCBI Official Symbol	FLT4
NCBI Official Synonym Symbols	PCL; FLT-4; FLT41; LMPH1A; VEGFR3; VEGFR-3
NCBI Protein Information	vascular endothelial growth factor receptor 3
UniProt Protein Name	Vascular endothelial growth factor receptor 3
UniProt Gene Name	FLT4
UniProt Synonym Gene Names	VEGFR3; VEGFR-3; FLT-4

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/vegfr3-antibody-immunohistochemistry-western-blot-elisa/323536>