

Rabbit anti-Human, Mouse VEGFR-2 (pY951) (CD309) Antibody | anti-VEGFR-2 (pY951) (CD309) antibody

Rabbit anti Phospho-VEGFR-2 (pTyr951)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71420	Rabbit	Human, Mouse	Immunohistochemistry, Western Blot, ELISA

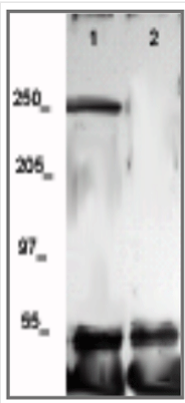
PRODUCT SYNONYMS

VEGFR-2 (pY951) (CD309); Rabbit anti Phospho-VEGFR-2 (pTyr951); Rabbit anti-VEGFR-2 (pY951); Vascular endothelial growth factor receptor 2 (VEGFR-2); KDR/Flk-1; CD309 antigen; anti-VEGFR-2 (pY951) (CD309) antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Specificity	This antibody recognizes ~240 kDa of human VEGFR-2 protein at a phosphorylation site of Tyrosine 951. It does not recognize non-phosphorylated peptides. This antibody also reacts with mouse. The other species are not tested.
Purity/Purification	The Rabbit IgG is purified by Site-specific Epitope Affinity Purification.
Form/Format	This affinity purified antibody is supplied in sterile Tris-buffered saline (pH7.2) containing antibody stabilizer
Concentration	Size: 100 ug/200 ul (varies by lot)
Applicable Applications for anti-VEGFR-2 (pY951) (CD309) antibody	IHC (Immunohistochemistry), WB (Western Blot), ELISA
Antigen Preparation	A synthetic peptide corresponding to the epitope -KDYVG- at a phosphorylation site at tyrosine 951 of human VEGFR-2 protein. This sequence is identical within human, mouse and dog.
Positive Control	VEGF-A stimulated HUVEC cells
Cellular Location	Cytoplasmic
Preparation and Storage	The antibodies are stable for 12 months from date of receipt when stored at -20 degree C to -70 degree C. The antibodies can be stored at 2 degree C-8 degree C for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

IMAGES



WB (Western Blot)
The whole cell lysate derived from human umbilical vein endothelial cell was stimulated by VEGF-A for 20 min, then immunoprecipitated by Rabbit anti-VEGFR-2 followed by immune-probing with Rabbit anti phosphor-VEGFR-2 (pY951) (AAA71420) at 1:500. An immunoreactive band is observed around ~240kDa(lane 1). The lane 2 is a negative control.

ADDITIONAL INFORMATION

Related Product Information for anti-VEGFR-2 (pY951) (CD309) antibody	Vascular endothelial growth factor receptor-2 (VEGFR-2), also known as CD309 antigen, the earliest known marker for vascular endothelia cells, is essential in vasculogenesis and angiogenesis. Binding of the dimeric VEGF-A to the extracellular domains of two monomeric receptors induces dimerization and activation of tyrosine kinase at tyrosine residues Y951, Y1054 and Y1059 in the kinase domain serve as positive regulatory sites. Phosphorylation at Y951 of the kinase insert is related to the migration of endothelial cells for tumor vascularization and growth.
References	Taro Matsumoto, et al. VEGF receptor-2 Y951 signaling and a role for the adapter molecule TSAd in tumor angiogenesis. The EMBO Journal (2005) 24, 2342-2353.

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; Q59EB0
Molecular Weight	~240 kDa
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; OTTHUMP00000158928; 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
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/rabbit-human-mouse-antibody/vegfr-2-py951-cd309/71420>