

Mouse anti-Human VEGFR-2/KDR Monoclonal Antibody | anti-VEGFR-2/KDR antibody

Mouse Anti-Human VEGFR-2/KDR

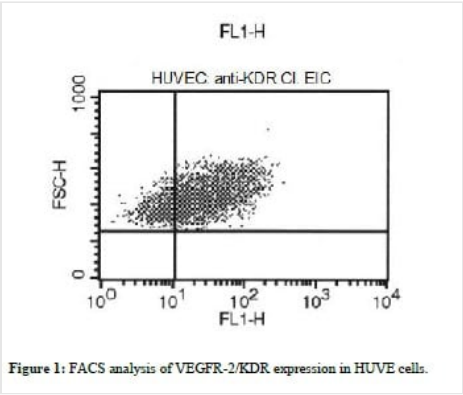
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA79115	Mouse	Human	Western Blot, Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA

PRODUCT SYNONYMS

VEGFR-2/KDR; Monoclonal Antibody; Mouse Anti-Human VEGFR-2/KDR; Anti-human VEGFR-2/KDR (#EIC); Vascular endothelial growth factor receptor 2; anti-VEGFR-2/KDR antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG
Clone Number	IgG1; EIC
Specificity	The antibody will detect native human VEGFR-2/KDR in ELISA experiments and on the surface of different human cell types.
Purity/Purification	Protein G Purified
Form/Format	Sterile filtered antibody solution was lyophilized from PBS; does not contain stabilizers or preservatives
Sequence Length	1356
Applicable Applications for anti-VEGFR-2/KDR antibody	WB (Western Blot), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA
Immunogen	recombinant human soluble KDR (D7) (RT# S01-002)
Preparation	Monoclonal antibodies were produced with the help of BALB/c mice using recombinant human soluble extracellular KDR (D7) as the immunizing antigen
Reconstitution	Centrifuge vial prior to opening. Reconstitute in sterile water to a concentration of 0.1-1.0 mg/ml
Preparation and Storage	Store at 2-8°C for up to 2 weeks After initial reconstitution, prepare and store working aliquots at -20 to -80°C Avoid freeze/thaw cycles



Application Data

ADDITIONAL INFORMATION

Related Product Information for anti-VEGFR-2/KDR antibody	Disruption of the precise balance of positive and negative molecular regulators of blood and lymphatic vessel growth can lead to myriad diseases. Although dozens of natural inhibitors of hemangiogenesis have been identified, an endogenous selective inhibitor of lymphatic vessel growth has not to our knowledge been previously described. A splice variant of the gene encoding vascular endothelial growth factor receptor-2 (VEGFR-2) that encodes a secreted form of the protein, designated endogenous soluble VEGFR-2 (esVEGFR- 2/KDR) has been described. The endogenous soluble esKDR inhibits developmental and reparative lymphangiogenesis by blocking VEGF-C function. Tissue-specific loss of esKDR in mice induced, at birth, spontaneous lymphatic invasion of the normally alymphatic cornea and hyperplasia of skin lymphatics without affecting blood vasculature. Administration of esKDR inhibited lymphangiogenesis but not hemangiogenesis induced by corneal suture injury or transplantation, enhanced corneal allograft survival and suppressed lymphangioma cellular proliferation. Naturally occurring esKDR thus acts as a molecular uncoupler of blood and lymphatic vessels; modulation of esKDR might have therapeutic effects in treating lymphatic vascular malformations, transplantation rejection and, potentially, tumor lymphangiogenesis and lymphedema.
References	1. Shibata et al, BMC Medicine 8 (2010) 2. Albuquerque et al, Nature Med 2009 3. Ebos et al, Mol Cancer Res 2 (2004) 4. Ebos et al, Cancer res 68 (2008).

NCBI AND UNIPROT INFORMATION

NCBI GI #	11321597
NCBI GeneID	3791
NCBI Accession #	NP_002241.1
NCBI GenBank Nucleotide #	NM_002253.2
UniProt Accession #	P22333; O60723; Q14178; A2RRS0; B5A925; C5IFA0; P35968
Molecular Weight	~50 kDa HC and ~25 kDa LC
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/monoclonal/vegfr-2-kdr-antibody-clone-igg1-eic-western-blot-flow-cytometry-immunohistochemistry-elisa/79115>