

Mouse anti-Mouse VEGFR-1/Flt-1 Monoclonal Antibody | anti-VEGFR-1/Flt-1 antibody

Mouse Anti-Human VEGFR-1/Flt-1

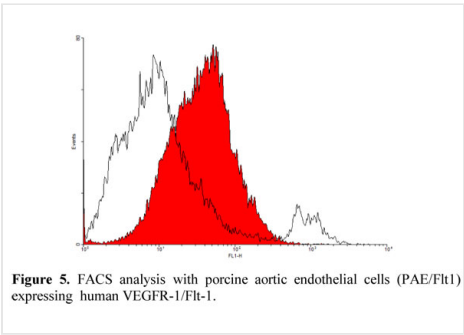
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA79085	Mouse	Mouse	Immunoprecipitation, Western Blot, ELISA

PRODUCT SYNONYMS

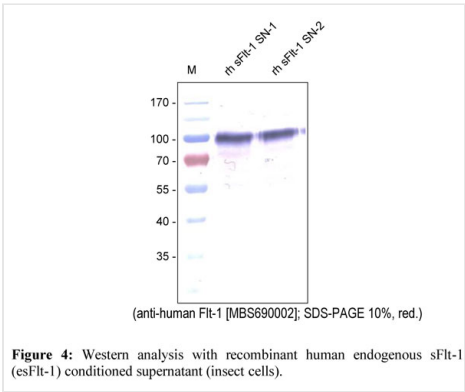
VEGFR-1/Flt-1; Monoclonal Antibody; Mouse Anti-Human VEGFR-1/Flt-1; Anti-human VEGFR-1/Flt-1 (#EWI); Fms-like tyrosine kinase 1; Vascular permeability factor receptor; anti-VEGFR-1/Flt-1 antibody

PRODUCT SPECIFICATIONS

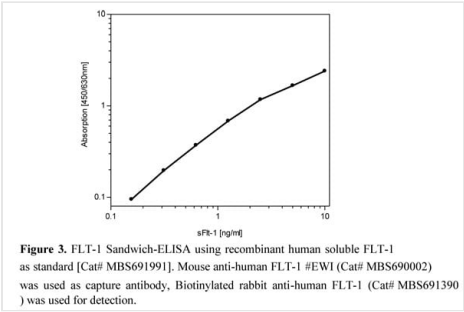
Host	Mouse
Reactivity	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	IgG1; EWI
Specificity	The antibody will detect native human VEGFR-1/Flt-1 in ELISA experiments, WB, IF and IP.
Purity/Purification	Protein G purified
Form/Format	Lyophilized
Sequence Length	687
Applicable Applications for anti-VEGFR-1/Flt-1 antibody	IP (Immunoprecipitation), WB (Western Blot), ELISA
Immunogen	recombinant human soluble Flt-1 (D5) (RT# S01-012)
Preparation	Monoclonal antibodies were produced with the help of BALB/c mice using recombinant human soluble extracellular Flt-1 (D5) as the immunizing antigen
Buffer	PBS
Reconstitution	Centrifuge vial prior to opening. Reconstitute in sterile water to a concentration of 0.1-1.0 mg/ml.
Preparation and Storage	The lyophilized antibody is stable at room temperature for up to 1 month. The reconstituted antibody is stable for at least two weeks at 2-8 degree C. Frozen aliquots are stable for at least 6 months when stored at -20 degree C.



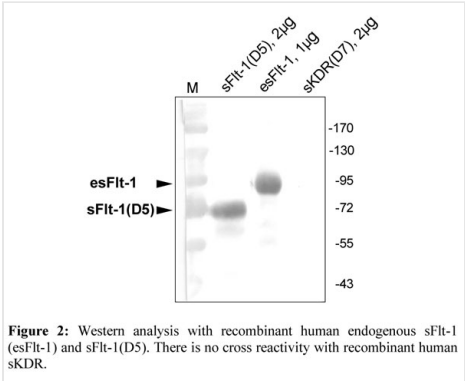
WB (Western Blot)



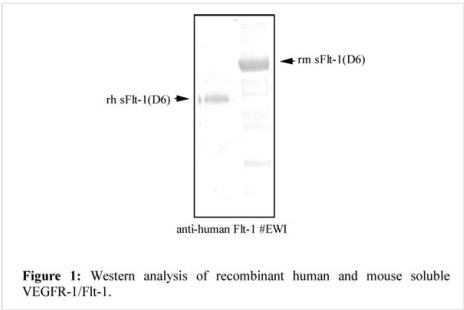
Application Data



Application Data



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for anti-VEGFR-1/Flt-1 antibody

Recombinant human soluble Vascular Endothelial Growth Factor Receptor-1 (sVEGFR-1) is the naturally occurring form and was cloned from total RNA of human umbilical vein endothelial cells. The mature rh-sVEGFR-1 is a glycosylated monomeric protein with a mass of approximately 96kDa. The soluble receptor consists of the first 6 extracellular domains containing the unique 31 amino acids residues at the C-terminus. Endothelial cells express three different vascular endothelial growth factor (VEGF) receptors, belonging to the family of receptor tyrosine kinases (RTKs). They are named VEGFR-1 (Flt-1), VEGFR-2 (KDR/Flk-1), VEGFR-3 (Flt-4). Their expression is almost exclusively restricted to endothelial cells, but VEGFR-1 can also be found on monocytes, dendritic cells and on trophoblast cells. The flt-1 gene was first described in 1990. The receptor contains seven immunoglobulin-like extracellular domains, a single transmembrane region and an intracellular split tyrosine kinase domain. Compared to VEGFR-2 the Flt-1 receptor has a higher affinity for VEGF but a weaker signaling activity. VEGFR-1 thus leads not to proliferation of endothelial cells, but mediates signals for differentiation. Interestingly a naturally occurring soluble variant of VEGFR-1 (sVEGFR-1) was found in HUVE supernatants in 1996, which is generated by alternative splicing of the flt-1 mRNA.

The biological functions of sVEGFR-1 still are not clear, but it seems to be an endogenous regulator of angiogenesis binding VEGF with the same affinity as the full-length receptor.

References	1. Barleon et al., 1997, J Biol Chem 272:10382-8 2. Röckl et al., 1998, Exp Cell Res, 241: 161-170].
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NCBI AND UNIPROT INFORMATION

NCBI GI #	229892220
NCBI GeneID	2321
NCBI Accession #	NP_001153392
NCBI GenBank Nucleotide #	NM_0001159920
UniProt Accession #	P17948 ; O60722 ; A3E342 ; A3E344 ; A8KA71 ; B0LPF1 ; B2BF46 ; B2BF47 ; B2BF48 ; B3FR89 ; B5A923 ; F5H5L6
Molecular Weight	150,769 Da
NCBI Official Full Name	vascular endothelial growth factor receptor 1 isoform 2
NCBI Official Synonym Full Names	fms-related tyrosine kinase 1
NCBI Official Symbol	FLT1
NCBI Official Synonym Symbols	FLT; FLT-1; VEGFR1; VEGFR-1
NCBI Protein Information	vascular endothelial growth factor receptor 1; fms-like tyrosine kinase 1; tyrosine-protein kinase FRT; tyrosine-protein kinase receptor FLT; vascular permeability factor receptor; fms-related tyrosine kinase 1 (vascular endothelial growth factor/vascular permeability factor receptor)
UniProt Protein Name	Vascular endothelial growth factor receptor 1
UniProt Gene Name	FLT1
UniProt Synonym Gene Names	FLT; FRT; VEGFR1; VEGFR-1; FLT-1; FLT
UniProt Entry Name	VGFR1_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-1-flt-1-antibody-clone-igg1-ewi-immunoprecipitation-western-blot-elisa/79085>