

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

Mouse Anti-Human VEGFR-1/Flt-1

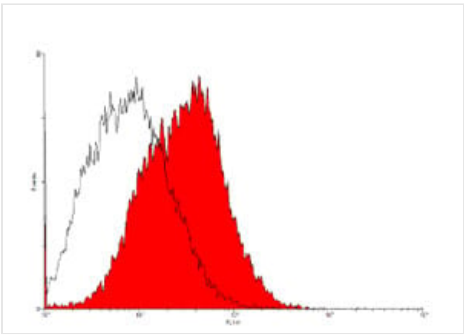
| CATALOG # | HOST  | REACTIVITY | APPLICATIONS                                                               |
|-----------|-------|------------|----------------------------------------------------------------------------|
| AAA79095  | Mouse | ND         | Flow Cytometry, Functional Assay, Immunoprecipitation, Western Blot, ELISA |

### PRODUCT SYNONYMS

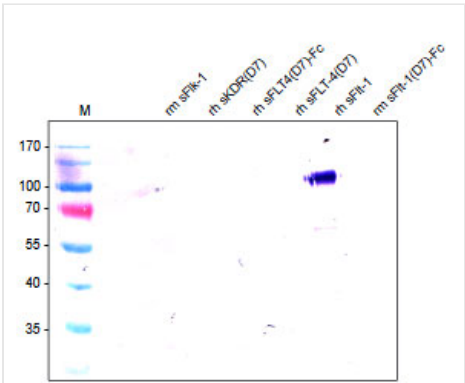
VEGFR-1/Flt-1; Monoclonal Antibody; Mouse Anti-Human VEGFR-1/Flt-1; Anti-human VEGFR-1/Flt-1 (#E1C); Fms-like tyrosine kinase 1; Vascular permeability factor receptor; anti-VEGFR-1/Flt-1 antibody

### PRODUCT SPECIFICATIONS

|                                                         |                                                                                                                                                                                                                                      |
|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                    | Mouse                                                                                                                                                                                                                                |
| Reactivity                                              | ND                                                                                                                                                                                                                                   |
| Clonality                                               | Monoclonal                                                                                                                                                                                                                           |
| Isotype                                                 | IgG1                                                                                                                                                                                                                                 |
| Clone Number                                            | IgG1; E1C                                                                                                                                                                                                                            |
| Specificity                                             | The antibody will detect native human VEGFR-1/Flt-1 in ELISA experiments and on the surface of different human cell types.                                                                                                           |
| Purity/Purification                                     | Protein G purified                                                                                                                                                                                                                   |
| Form/Format                                             | Lyophilized                                                                                                                                                                                                                          |
| Sequence Length                                         | 687                                                                                                                                                                                                                                  |
| Applicable Applications for anti-VEGFR-1/Flt-1 antibody | FCM/FACS (Flow Cytometry), IP (Immunoprecipitation), WB (Western Blot), ELISA                                                                                                                                                        |
| Immunogen                                               | recombinant human soluble Flt-1 (D5) (RT# S01-012)                                                                                                                                                                                   |
| Reconstitution                                          | Centrifuge vial prior to opening. Reconstitute in sterile water to a concentration of 0.1-1.0mg/ml.                                                                                                                                  |
| Preparation                                             | Monoclonal antibodies were produced with the help of BALB/c mice using recombinant human soluble extracellular Flt-1 (D5) as the immunizing antigen.                                                                                 |
| 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. |



**FCM/FACS (Flow Cytometry)**  
FACS analysis with porcine aortic endothelial cells(PAE/Flt1) expressinghuman VEGFR-1/Flt-1



**WB (Western Blot)**  
Western analysis of recombinant human and mouse soluble VEGF receptors using a monoclonal antibody directed against human recombinant sFlt-1(D5).There is no cross reactivity with mouse sFlt-1(D7)-Fc as wel as with human and mouse sKDR and human sFLT-4 visible

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 splited 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 occuring 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. |
| References                                                  | 1. Barleon et al., 1997, J Biol Chem 272:10382-8 2. Röckl et al., 1998, Exp Cell Res, 241: 161-170].                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                                                                                               |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 229892220                                                                                                                                                                                                                                                                                     |
| NCBI GeneID                      | 2321                                                                                                                                                                                                                                                                                          |
| NCBI Accession #                 | NP_001153392                                                                                                                                                                                                                                                                                  |
| NCBI GenBank Nucleotide #        | NM_0001159920                                                                                                                                                                                                                                                                                 |
| UniProt Accession #              | P17948-2; O60722; A3E342; A3E344; A8KA71; B0LPF1; B2BF46; B2BF47; B2BF48; B3FR89; B5A923; F5H5L6; P17948                                                                                                                                                                                      |
| 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-eic-flow-cytometry-immunoprecipitation-western-blot-elisa/79095>