

DESCRIPTION

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| Species Reactivity | Mouse |
| Specificity | Detects mouse VEGFR1/Flt-1 in ELISAs and Western blots. |
| Source | Polyclonal Goat IgG |
| Purification | Antigen Affinity-purified |
| Immunogen | Mouse myeloma cell line NS0-derived recombinant mouse VEGFR1/Flt-1 Ser27-Glu759 Accession # P35969 |
| Conjugate | Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm |
| Formulation | Supplied 0.2mg/ml in 1X PBS with RGD1 and 0.09% Sodium Azide |

*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the Technical Information section on our website.

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| CyTOF-ready | Optimal dilution of this antibody should be experimentally determined. |
| ELISA Capture (Matched Antibody Pair) | Optimal dilution of this antibody should be experimentally determined. |
| ELISA Detection (Matched Antibody Pair) | Optimal dilution of this antibody should be experimentally determined. |
| Neutralization | Optimal dilution of this antibody should be experimentally determined. |
| Western Blot | Optimal dilution of this antibody should be experimentally determined. |
| Blockade of Receptor-ligand Interaction | Optimal dilution of this antibody should be experimentally determined. |
| Flow Cytometry | Optimal dilution of this antibody should be experimentally determined. |

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

VEGFR1 is one of the five receptor tyrosine kinases (RTKs) (VEGFR1, KDR/Flik-1, Flt-4, Tie-1, and Tek/Tie-2) whose expression is almost exclusively restricted to the endothelial cells. Tie-1 and tek/tie-2 define a new class of RTKs containing two immunoglobulin-like domains, three EGF homology domains and three fibronectin type III domains in their extracellular regions. VEGFR1/Flt-1, VEGFR2/KDR/Flik-1, VEGFR3/Flt-4 are members of the class III subfamily of RTKs containing seven immunoglobulin-like repeats in their extracellular domains. All five RTKs are likely to play central roles in vasculogenesis and angiogenesis.

Full length mouse VEGFR1 mRNA encodes a 1333 amino acid (aa) residue precursor with a predicted 22 aa residue signal peptide. Mature VEGFR1 is composed of a 737 aa residue extracellular domain, a 22 aa residue transmembrane domain and a 552 aa residue cytoplasmic domain. As a result of alternative splicing of the mRNA, a cDNA encoding a truncated form of VEGFR1, lacking the seventh immunoglobulin-like domain, the transmembrane and intracellular domains, has been cloned. The recombinant soluble VEGFR1/Fc chimera binds VEGF and PIGF with high affinity and is a potent VEGF antagonist.

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