



20200828DS

Anti-Mouse VEGFR-1 [Flt-1] (#5F13)

**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

Cat.-no.:	103-M31
Size:	100 µg
Lot. No.:	According to product label

Preparation: This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a rat) immunized with mouse VEGFR-1 extracellular domain. IgG2 fraction of the tissue culture supernatant was purified by Protein G affinity chromatography.

Target Background

Synonyms (Target):	vascular endothelial growth factor receptor-1; FLT1; VEGF receptor 1;
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Vascular Endothelial Growth Factor (VEGF or VEGF-A) family members are major mediators of vasculogenesis and angiogenesis. Specifically, biological activities attributed to VEGFs include: mitogenic activity on endothelial cells, increased permeability of endothelial cells to proteins, stimulation of monocyte migration across endothelial cells and angiogenic activity. Three VEGF family receptors have been described: Flt-1 (fms-like tyrosine kinase) also known as VEGF R1, KDR (kinase-insert domain-containing receptor) also known as Flk-1 and VEGF R2, and Flt-4 also known as VEGF R3. The three receptors contain seven extracellular immunoglobulin-like domains and share substantial sequence homology. In addition, neuropilin-1, a neuronal receptor, also acts as a co-receptor for VEGF when expressed on vascular endothelial cells, endothelial cell progenitors and monocytes. VEGF R1 is expressed primarily on endothelial cells but is also found on human peripheral blood monocytes. Through its endothelial mitogenic and hyperpermeability activities, VEGF influences a variety of immune functions related to wound healing and blood protein traffic across endothelial barriers.

Database References Target

Protein RefSeq:	NP_034358.2
Uniprot ID:	P35969
mRNA RefSeq:	NM_010228.3

Product Specifications

Host	Rat
Reactivity against	Mouse
Clonality	Monoclonal Antibody
Clone	(#5F13)
Isotype	IgG2
Purification	Protein G chromatography
Antigen	mouse VEGFR1 extracellular domain
Formulation	lyophilized
Reconstitution buffer	PBS (sterile)

Reconstitution: Reconstitute the antibody with 500 µl sterile PBS and the final concentration is 200 µg/ml.

Stability: Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C. Reconstituted antibody can be aliquoted and stored frozen at < -20°C for at least for six months without detectable loss of activity.

Remarks: This antibody recognizes mouse VEGFR1 in western blot. No crossreactivity to mouse VEGFR2 and VEGFR3. Cross reactivity to other species has not been tested!

**AVOID REPEATED FREEZE AND THAW CYCLES!**

Applications

The antibody can be used within the following applications:

WB, IHC (P)

Recommended usage:

Western Blot: 1:500 - 1:1000

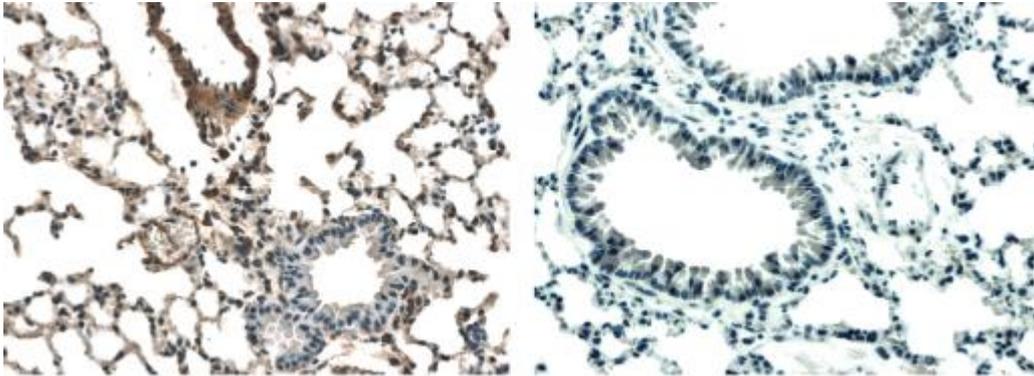
IHC (paraffine): 1:50 - 1:100

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!



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Application/Handling



Paraffin lung section from LPS treated mice was subjected to IHC using anti VEGFR-1 antibody 103-M31 (Right Panel, Negative control).