



20150218ML

Anti-Mouse VEGF-D (#8C35)

Product Specifications

Host	Rat
Reactivity against	Mouse
Clonality	Monoclonal Antibody
Clone	(#8C35)
Isotype	IgG
Purification	Protein G chromatography
Antigen	recombinant mouse VEGF-D
Formulation	lyophilized
Reconstitution buffer	PBS (sterile)

Reconstitution: Reconstitute the antibody with 200 µl sterile PBS and the final concentration is 500 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 VEGF-D in western blot. No crossreactivity with mouse VEGF and VEGF-B. Cross reactivity to other species have not been tested!



AVOID REPEATED FREEZE AND THAW CYCLES!

Applications

The antibody can be used within the following applications:

IHC, WB

Recommended usage:

Immunohistochemistry: 1:50 - 1:200

Western Blot: 1:500 - 1:1000

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

FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	103-M66
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 mouse immunized with recombinant mouse VEGF-D recombinant protein). The IgG2 fraction of culture supernatant was purified by Protein G affinity chromatography.

Target Background

Synonyms (Target):	vascular endothelial growth factor D; Figf; Vegfd; VEGF-D; AI325264
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VEGF-D, a member of the VEGF/PDGF family of structurally related proteins, is a potent angiogenic cytokine. It promotes endothelial cell growth, promotes lymphangiogenesis, and can also affect vascular permeability. VEGF-D is highly expressed in the lung, heart, small intestine and fetal lung, and at lower levels in the skeletal muscle, colon, and pancreas. It forms cell surfaced-associated non-covalent disulfide linked homodimers, and can bind and activate both VEGFR-2 (flk1) and VEGFR-3 (flt4) receptors. During embryogenesis, VEGF-D may play a role in the formation of the venous and lymphatic vascular systems. It also participates in the growth and maintenance of differentiated lymphatic endothelium in adults. Both VEGF-C and VEGF-D are over-expressed in certain cancers, and the resulting elevated levels of VEGF-C or VEGF-D tend to correlate with increased lymphatic metastasis.

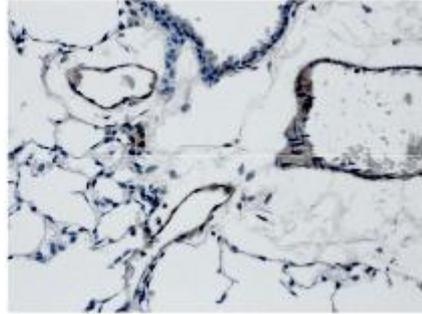
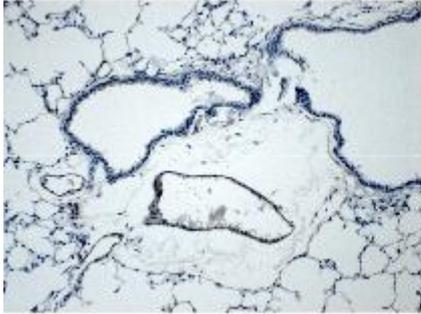
Database References Target

Protein RefSeq:	NP_113949.1
Uniprot ID:	O35251
mRNA RefSeq:	NM_031761.1



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Application/Handling



4% PFA fixed and paraffin embedded mouse Lung tissue section was subjected to IHC staining of mouse VEGF-D using 103-M66.