



20150218ML

Anti-Mouse VEGFR-2 [FLK-1] (#7A23)

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

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|------------------|----------------------------|
| Cat.-no.: | 103-M35 |
| 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 mouse VEGFR-2 extracellular domain. IgG2 fraction of the tissue culture supernatant was purified by Protein G affinity chromatography.

Target Background

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|---------------------------|--|
| Synonyms (Target): | vascular endothelial growth factor receptor-2 ; Kdr; Ly73; Flk-1; VEGF receptor 2; kinase insert domain protein receptor |
|---------------------------|--|

VEGF R1 (Flt-1), VEGF R2 (KDR/Flk-1), and VEGF R3 (Flt-4) belong to the class III subfamily of receptor tyrosine kinases (RTKs). All three receptors contain seven immunoglobulin-like repeats in their extracellular domain and kinase insert domains in their intracellular region. They are best known for regulating VEGF family-mediated vasculogenesis, angiogenesis, and lymphangiogenesis. They are also mediators of neurotrophic activity and regulators of hematopoietic development. VEGF R2 is thought to be the primary inducer of VEGF-mediated blood vessel growth, while VEGF R3 plays a significant role in VEGF-C and VEGF-D-mediated lymphangiogenesis.

Database References Target

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|------------------------|------------|
| Protein RefSeq: | ACJ66293.1 |
| Uniprot ID: | P35918 |
| mRNA RefSeq: | EU884114 |

Product Specifications

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|------------------------------|------------------------------------|
| Host | Rat |
| Reactivity against | Mouse |
| Clonality | Monoclonal Antibody |
| Clone | (#7A23) |
| Isotype | IgG2 |
| Purification | Protein G chromatography |
| Antigen | Mouse VEGFR2 extra-cellular domain |
| 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 VEGFR2 in western blot. No crossreactivity to mouse VEGFR1 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

Recommended usage:

Western Blot: 1:200 - 1:800

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

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