



20150218ML

Anti-Mouse VEGFR-2 [FLK-1] (#6C23)

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

| | |
|------------------|----------------------------|
| Cat.-no.: | 103-M35A |
| 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. IgG2a 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

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

Product Specifications

| | |
|------------------------------|------------------------------------|
| Host | Rat |
| Reactivity against | Mouse |
| Clonality | Monoclonal Antibody |
| Clone | (#6C23) |
| Isotype | IgG2a |
| 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 cross-reactivity 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 (P)

Recommended usage:

Western Blot: 1:400 - 1:1000

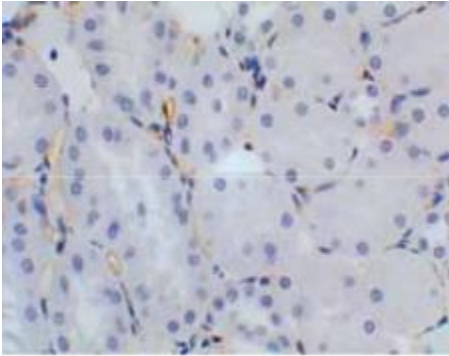
IHC (paraffine): 1:100 - 1:300

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



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Application/Handling



Paraformalin fixed and paraffin embedded normal mouse kidney section was subjected to immunohistochemistry staining (ABC) of VEGFR2 using 103-M35A. Specific VEGFR2 signal (DAB) is noted in vascular endothelial cells.