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Mouse Flt4 Antibody (N-term) Blocking peptide

Synthetic peptide
Catalog # BP14163a

Specification

Mouse Flt4 Antibody (N-term) Blocking peptide - Product Information

Primary Accession P35917

Mouse Flt4 Antibody (N-term) Blocking peptide - Additional Information

Gene ID 14257

Other Names
Vascular endothelial growth factor receptor 3, VEGFR-3, Fms-like tyrosine kinase 4, FLT-4, Tyrosine-protein kinase receptor FLT4, Flt4, Flt-4, Vegfr3

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP14163a was selected from the N-term region of Mouse Flt4. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Mouse Flt4 Antibody (N-term) Blocking peptide - Protein Information

Name Flt4

Synonyms Flt-4, Vegfr3

Function
Tyrosine-protein kinase that acts as a cell-surface receptor for VEGFC and VEGFD, and plays an essential role in adult lymphangiogenesis and in the development of the vascular network and the cardiovascular system during embryonic development. Promotes proliferation, survival and migration of endothelial cells, and regulates angiogenic sprouting. Signaling by activated FLT4 leads to enhanced production of VEGFC, and to a lesser degree VEGFA, thereby creating a positive feedback loop that enhances FLT4 signaling. Modulates KDR signaling by forming heterodimers. Mediates activation of the MAPK1/ERK2, MAPK3/ERK1 signaling pathway, of MAPK8 and the JUN signaling pathway, and of the AKT1 signaling pathway. Phosphorylates SHC1. Mediates phosphorylation of PIK3R1, the regulatory subunit of phosphatidylinositol 3-kinase. Promotes phosphorylation of MAPK8 at 'Thr-183' and 'Tyr-185', and of AKT1 at 'Ser-473'.

Cellular Location
Cell membrane; Single-pass type I membrane protein Cytoplasm. Nucleus. Note=Ligand-mediated autophosphorylation leads to rapid internalization

Tissue Location
Expressed in adult lung and liver, and in fetal liver, brain, intestine and placenta.

Mouse Flt4 Antibody (N-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

Mouse Flt4 Antibody (N-term) Blocking peptide - Images

Mouse Flt4 Antibody (N-term) Blocking peptide - Background

Flt4 is a receptor for VEGFC. Has a tyrosine-protein kinase activity.

Mouse Flt4 Antibody (N-term) Blocking peptide - References

Proulx, S.T., et al. Cancer Res. 70(18):7053-7062(2010)Corada, M., et al. Dev. Cell 18(6):938-949(2010)Chen, L., et al. J. Cell Biol. 189(3):417-424(2010)Nakamura, M., et al. J. Gastroenterol. Hepatol. 25 SUPPL 1, S1-S6 (2010) :Kim, H., et al. BMC Dev. Biol. 10, 72 (2010) :