

Mouse Flt3 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP14621a**Specification**

Mouse Flt3 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q00342](#)**Mouse Flt3 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 14255**Other Names**

Receptor-type tyrosine-protein kinase FLT3, FL cytokine receptor, Fetal liver kinase 2, FLK-2, Fms-like tyrosine kinase 3, FLT-3, Tyrosine-protein kinase receptor flk-2, CD135, Flt3, Flk-2, Flt-3

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 Flt3 Antibody (N-term) Blocking Peptide - Protein Information**Name** Flt3**Synonyms** Flk-2, Flt-3**Function**

Tyrosine-protein kinase that acts as a cell-surface receptor for the cytokine FLT3LG and regulates differentiation, proliferation and survival of hematopoietic progenitor cells and of dendritic cells. Promotes phosphorylation of SHC1 and AKT1, and activation of the downstream effector MTOR. Promotes activation of RAS signaling and phosphorylation of downstream kinases, including MAPK1/ERK2 and/or MAPK3/ERK1. Promotes phosphorylation of FES, FER, PTPN6/SHP, PTPN11/SHP-2, PLCG1, and STAT5A and/or STAT5B. Activation of wild-type FLT3 causes only marginal activation of STAT5A or STAT5B. Mutations that cause constitutive kinase activity promote cell proliferation and resistance to apoptosis via the activation of multiple signaling pathways.

Cellular Location

Membrane; Single-pass type I membrane protein. Endoplasmic reticulum lumen.

Note=Constitutively activated mutant forms with internal tandem duplications are less efficiently transported to the cell surface and a significant proportion is retained in an immature form in the endoplasmic reticulum lumen. The activated kinase is rapidly targeted for degradation (By

similarity).

Tissue Location

Hematopoietic stem and progenitor cell-enriched populations. Found in brain, placenta and testis

Mouse Flt3 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

Mouse Flt3 Antibody (N-term) Blocking Peptide - Images**Mouse Flt3 Antibody (N-term) Blocking Peptide - Background**

Flt3 is a receptor for the FL cytokine. Has a tyrosine-protein kinase activity.

Mouse Flt3 Antibody (N-term) Blocking Peptide - References

Rathinam, C., et al. Cancer Cell 18(4):341-352(2010)DeBoy, C.A., et al. Exp. Mol. Pathol. 89(2):109-116(2010)Mkonyi, L.E., et al. Am. J. Physiol. Heart Circ. Physiol. 299 (2), H275-H283 (2010) :Carotta, S., et al. Immunity 32(5):628-641(2010)Eidenschenk, C., et al. Proc. Natl. Acad. Sci. U.S.A. 107(21):9759-9764(2010)