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Mouse Flt3 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14621A

Specification

Mouse Flt3 Antibody (N-term) - Product Information

Application	**WB,E**
Primary Accession	Q00342
Other Accession	P36888, NP_034359.2
Reactivity	**Mouse**
Predicted	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**154-181**

Mouse Flt3 Antibody (N-term) - 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

Target/Specificity
This Mouse Flt3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 154-181 amino acids from the N-terminal region of mouse Flt3.

Dilution
WB~~1:1000

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Mouse Flt3 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Mouse Flt3 Antibody (N-term) - 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).

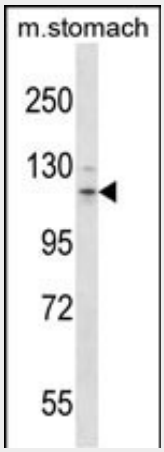
Tissue Location
Hematopoietic stem and progenitor cell-enriched populations. Found in brain, placenta and testis

Mouse Flt3 Antibody (N-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Mouse Flt3 Antibody (N-term) - Images



Mouse Flt3 Antibody (N-term) (Cat. #AP14621a) western blot analysis in mouse stomach tissue lysates (35ug/lane).This demonstrates the Flt3 antibody detected the Flt3 protein (arrow).

Mouse Flt3 Antibody (N-term) - Background

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

Mouse Flt3 Antibody (N-term) - 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) :
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