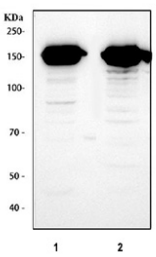
Flt3 Antibody / CD135 (R32824)

Catalog No.	Formulation	Size
R32824	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

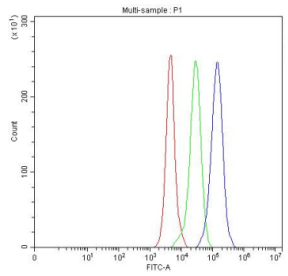
Bulk quote request

Availability	1-3 business days
Species Reactivity	Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q00342
Localization	Cell membrane, cytoplasm
Applications	Western Blot : 0.5-1ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA (mouse Recombinant Protein) : 0.1-0.5ug/ml (BSA-free formulation available)
Limitations	This Flt3 antibody is available for research use only.

Western blot testing of mouse brain lysate with Flt3 antibody at 0.5ug/ml. Predicted molecular weight: ~113 kDa (unmodified), ~130/160 kDa (glycosylated).



Western blot testing of 1) rat liver and 2) mouse liver tissue lysate with Flt3 antibody at 0.5ug/ml. Predicted molecular weight: ~113 kDa (unmodified), ~130/160 kDa (glycosylated).



Flow cytometry testing of fixed mouse RAW264.7 cells with Flt3 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Flt3 antibody.

Description

Flt3 (Fms-like tyrosine kinase 3), also known as CD135, is a receptor tyrosine kinase expressed primarily on hematopoietic progenitor cells. It plays a key role in early hematopoiesis by regulating the survival, proliferation, and differentiation of stem and progenitor cells. Flt3 is activated upon binding to its ligand (Flt3L), which triggers downstream signaling pathways including PI3K-AKT, RAS-MAPK, and STAT5, contributing to immune cell development and homeostasis.

Flt3 expression is largely restricted to the hematopoietic system, with highest levels observed in multipotent progenitors, dendritic cell precursors, and certain lymphoid progenitors. Its function in immune regulation and blood cell formation makes it a critical focus in immunology and hematology research. Altered signaling through Flt3 has been studied in the context of abnormal blood cell proliferation and dysregulated immune responses.

The **Flt3 antibody** is a reliable reagent for detecting Flt3 in applications such as flow cytometry, western blot, and immunohistochemistry. Researchers use the Flt3 antibody from NSJ Bioreagents to evaluate expression patterns in progenitor cell populations, study receptor-mediated signaling events, and investigate the molecular regulation of hematopoietic development. With high specificity and reproducible performance, the Flt3 antibody supports advanced research in stem cell biology, immunology, and hematopoietic signaling networks.

Application Notes

Optimal dilution of the Flt3 antibody should be determined by the researcher.

Immunogen

A recombinant mouse protein corresponding to amino acids E62-E295 was used as the immunogen for the Flt3 antibody.

Storage

After reconstitution, the Flt3 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.