

Datasheet for ABIN1302921
anti-FLT3 antibody (FITC)[Go to Product page](#)

2 Images

1 Publication

Overview

Quantity:	100 tests
Target:	FLT3
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This FLT3 antibody is conjugated to FITC
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	BV-173 leukemic cell line
Clone:	BV10A4
Isotype:	IgG1
Specificity:	The mouse monoclonal antibody BV10A4 (BV10) reacts with an extracellular epitope of CD135 (FLT3, FLK2, STK-1), a 130-160 kDa type I transmembrane receptor tyrosine kinase that is involved in early steps of hematopoiesis.
No Cross-Reactivity:	Mouse
Cross-Reactivity (Details):	Human
Purification:	Purified antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	FLT3
Alternative Name:	CD135 (FLT3 Products)
Background:	Fms related tyrosine kinase 3,CD135 / FLT3, also known as FLK2 or STK-1 is a receptor tyrosine kinase that plays important roles in hematopoiesis. After binding of Flt3 ligand (FL), CD135 homodimerizes and stimulates proliferation, differentiation and protects the cell from apoptosis. The loss of CD90 and gain of CD135 expression marks the loss of self-renewal in hematopoietic stem cell population. Detectable CD135 expression appears first at low levels on the surface of primitive multilineage progenitor cells and disappears during defined stages of B-cell development, but is upregulated and maintained during maturation of monocytes. CD135 is also expressed on thymocytes, dendritic cell progenitors and on mature dendritic cells, as well as on various malignant hematopoietic cells.,FLT3, FLK2, STK1
Gene ID:	2322
UniProt:	P36888
Pathways:	RTK Signaling

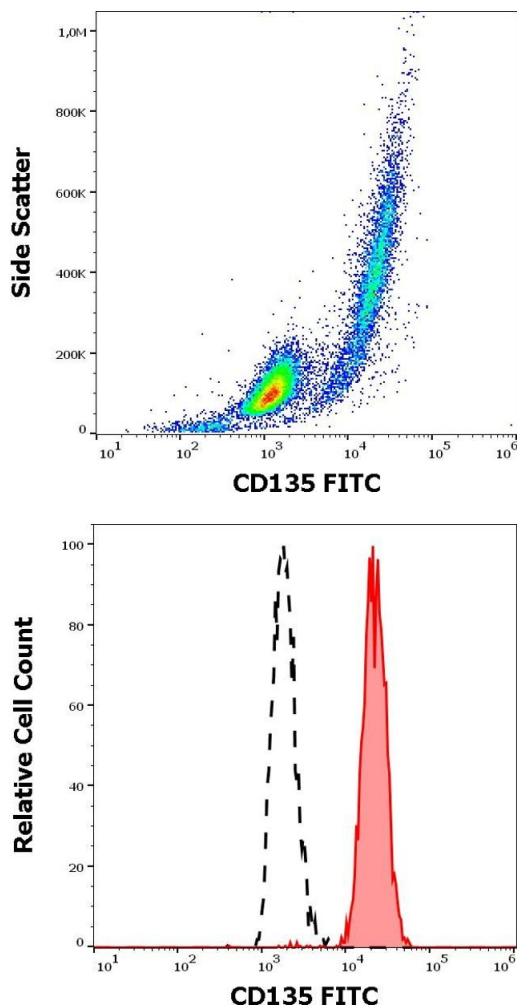
Application Details

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 4 µL reagent / 100 µL of whole blood or 10 ⁶ cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.
Comment:	The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary.
Restrictions:	For Research Use only

Handling

Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Product cited in: Haylock, Horsfall, Dowse, Ramshaw, Niutta, Protopsaltis, Peng, Burrell, Rappold, Buhring, Simmons: "Increased recruitment of hematopoietic progenitor cells underlies the ex vivo expansion potential of FLT3 ligand." in: **Blood**, Vol. 90, Issue 6, pp. 2260-72, (1997) ([PubMed](#)).



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of REH cellular suspension stained using anti-human CD135 (BV10A4) FITC antibody (4 μ L reagent per million cells in 100 μ L of cell suspension).

Flow Cytometry

Image 2. Separation of REH cells stained using anti-human CD135 (BV10A4) FITC antibody (4 μ L reagent per million cells in 100 μ L of cell suspension, red-filled) from REH cells unstained by primary antibody (black-dashed) in flow cytometry analysis (surface staining).