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Datasheet for ABIN1302621 anti-FLT3 antibody (APC)

2 Images



Overview

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

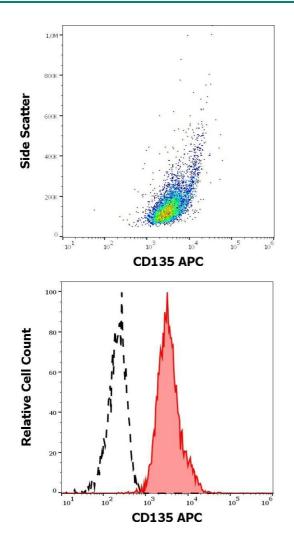
Product Details

Immunogen:	BV-173 leukemic cell line
Clone:	BV10A4
Isotype:	lgG1
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 activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

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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 10 μL reagent / 100 μL of whole blood or 10 ⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.	
Comment:	The purified antibody is conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography 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.	

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Flow Cytometry

Image 1. Flow cytometry surface staining pattern of REH cell suspension stained using anti-human CD135 (BV10A4) APC antibody (10 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) APC antibody (10 μ L reagent per million cells in 100 μ L of cell suspension, red-filled) from REH cells stained using mouse IgG1 isotype control (MOPC-21) APC antibody (concentration in sample 5 μ g/mL, same as CD135 APC concentration, black-dashed) in flow cytometry analysis (surface staining).

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