Datasheet for ABIN7505849

anti-SEMA4D/CD100 antibody (FITC)

3 Images

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Overview

Quantity:	100 tests
Target:	SEMA4D/CD100 (SEMA4D)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SEMA4D/CD100 antibody is conjugated to FITC
Application:	Flow Cytometry (FACS)

Product Details

Purpose:	Anti-Hu CD100 FITC
Immunogen:	PHA stimulated human PBL
Clone:	133-1C6
Isotype:	IgM
Specificity:	The mouse monoclonal antibody 133-1C6 recognizes an extracellular epitope of CD100, an approximately 150 kDa (when reduced) semaphorin family member expressed mainly on lymphocytes, NK cells, monocytes/macrophages and granulocytes, but also on some non-hematopoietic cells.
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

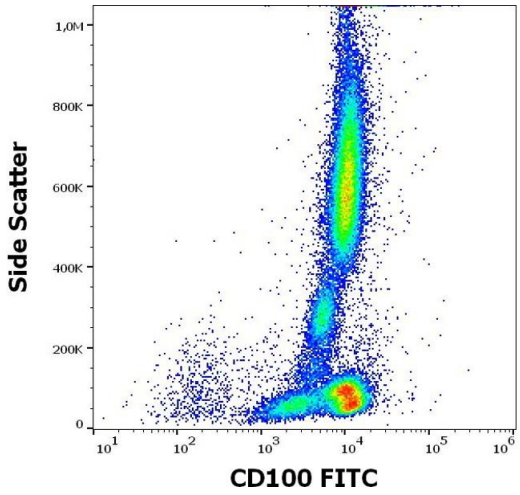
Target:	SEMA4D/CD100 (SEMA4D)
Alternative Name:	CD100 (SEMA4D Products)
Background:	Semaphorin 4D,CD100, also known as semaphorin 4D, is a homodimerizing type I transmembrane glycoprotein containing an extracellular semaphorin domain. It is expressed on most hematopoietic cells with the exception of immature bone marrow cells, erythrocytes and platelets. A 120 kDa soluble form is generated from the transmembrane form by proteolytic cascade following primary T and B cell activation. It seems CD100 acts through dampening CD72-mediated negative signaling. CD100 promotes angiogenesis, invasive growth, proliferation and anti-apoptosis of cancer cells in vitro. Higher expression levels of CD100 correlate with poor survival in soft tissue sarcoma patients.,COLL4, SEMA4D, semaphorin 4D
Gene ID:	10507
UniProt:	Q92854
Pathways:	Regulation of Cell Size

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.
Restrictions:	For Research Use only

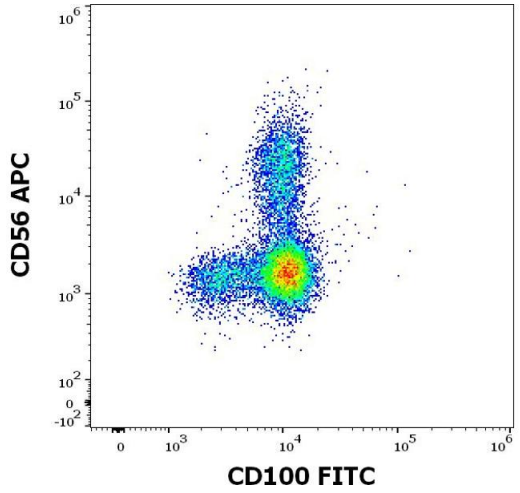
Handling

Buffer:	Stabilizing Tris buffered saline (TBS), pH 8.0, 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.



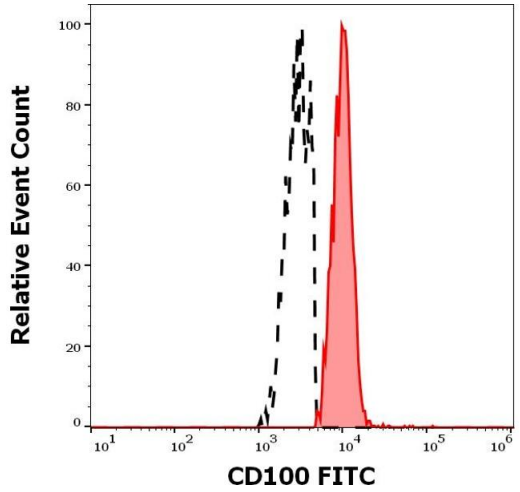
Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD100 (133-1C6) FITC antibody (4 µL reagent / 100 µL of peripheral whole blood).



Flow Cytometry

Image 2. Flow cytometry multicolor surface staining of human lymphocytes stained using anti-human CD100 (133-1C6) FITC antibody (4 µL reagent / 100 µL of peripheral whole blood) and anti-human CD56 (LT56) APC antibody (10 µL reagent / 100 µL of peripheral whole blood).



Flow Cytometry

Image 3. Separation of human CD100 positive CD56 positive lymphocytes (red-filled) from CD100 negative CD56 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD100 (133-1C6) FITC antibody (4 µL reagent / 100 µL of peripheral whole blood).