

anti-Human CD100 Antibody | anti-CD100 antibody

Anti-Hu CD100 FITC

CATALOG # AAA129307	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay
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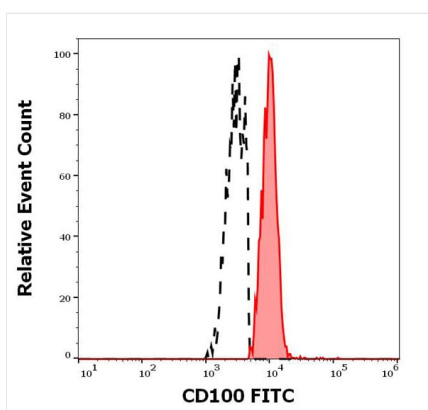
PRODUCT SYNONYMS

CD100; Anti-Hu CD100 FITC; semaphorin 4D; COLL4; SEMA4D; anti-CD100 antibody

PRODUCT SPECIFICATIONS

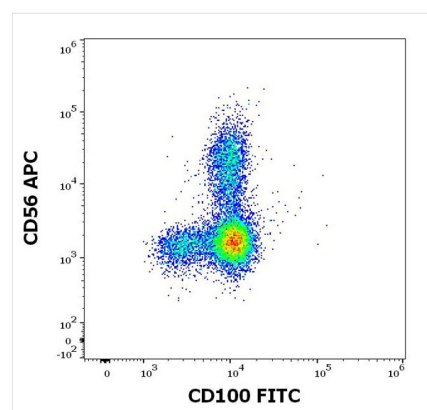
Reactivity	Human
Isotype	Mouse IgM
Clone Number	133-1C6
Specificity	The mouse monoclonal antibody 133-1C6 recognizes an extracellular epitope of CD100, an approximately 150 kDa (when reduced) semaphorin family member expressed mainly on lymphocytes, NK cells, monocytes/macrophages and granulocytes, but also on some non-hematopoietic cells.
Form/Format	FITC Purified antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography. Stabilizing Tris buffered saline (TBS), pH 8.0, 15 mM
Applicable Applications for anti-CD100 antibody	FCM/FACS (Flow Cytometry)
Immunogen	PHA stimulated human PBL
Preparation and Storage	Store at 2-8 degree C. Protect from prolonged exposure to light. Do not freeze.

IMAGES



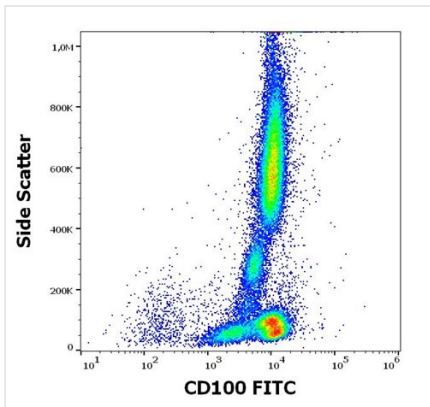
FCM/FACS (Flow Cytometry)

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 ?l reagent / 100 ?l of peripheral whole blood).



FCM/FACS (Flow Cytometry)

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



FCM/FACS (Flow Cytometry)
 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).

ADDITIONAL INFORMATION

Related Product Information for anti-CD100 antibody	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.
References	*Jiang X, Björkström NK, Melum E: Intact CD100-CD72 interaction necessary for TCR-induced T cell proliferation. Front Immunol. 2017 Jun 30;8:765. doi: 10.3389/fimmu.2017.00765., URL: https://www.ncbi.nlm.nih.gov/pubmed/?term=intact+cd100-cd72+interaction ,

NCBI AND UNIPROT INFORMATION

NCBI GI #	214010218
NCBI GeneID	10507
NCBI Accession #	NP_006369.3
NCBI GenBank Nucleotide #	NM_006378.3
UniProt Accession #	Q92854; Q7Z5S4; Q8N8B0; B2RPM6
Molecular Weight	96,150 Da
NCBI Official Full Name	semaphorin-4D isoform 1
NCBI Official Synonym Full Names	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D
NCBI Official Symbol	SEMA4D
NCBI Official Synonym Symbols	CD100; SEMAJ; coll-4; C9orf164; M-sema-G
NCBI Protein Information	semaphorin-4D; A8; GR3; BB18; sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, 4D
UniProt Protein Name	Semaphorin-4D
UniProt Gene Name	SEMA4D
UniProt Synonym Gene Names	C9orf164; CD100; SEMAJ
UniProt Entry Name	SEM4D_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-antibody/cd100/129307>