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30-2668: Anti-Human CD100 Antibody (Clone : 133-1C6)

Clonality :	Monoclonal
Clone Name :	133-1C6
Reactivity :	Human
Gene :	SEMA4D
Gene ID :	10507
Format :	Purified
Alternative Name :	COLL4, SEMA4D, semaphorin 4D,semaphorin 4D
Isotype :	Mouse IgM
Immunogen Information :	PHA stimulated human PBL

Description

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.
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.

Product Info

Amount :	0.1 mg
Purification :	Purified by sequential steps of physicochemical fractionation (differential precipitation and solid-phase chromatography methods) followed by size-exclusion chromatography.
Content :	1 mg/ml Formulation : Tris buffered saline (TBS), pH 8.0, 15 mM sodium azide
Storage condition :	Store at 2-8°C. Do not freeze.

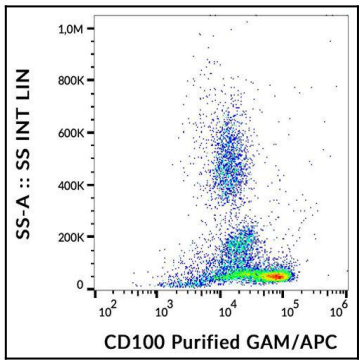


Figure 1 : Flow cytometry analysis (surface staining) of human peripheral blood with anti-CD100 (133-1C6) purified, GAM-APC.

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