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

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 protein-A affinity chromatography

Content: 1 mg/m

Formulation: Tris buffered saline (TBS), pH 8.0, 15 mM sodium azide

Storage condition : Store at 2-8°C. Do not freeze.

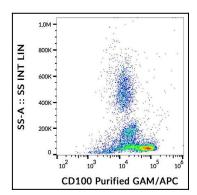


Figure 1: Flow cytometry analysis (surface staining) of human peripheral blood with anti-CD100 (133-1C6) purified, GAM-APC.