

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

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	133-1C6
<b>Reactivity :</b>	Human
<b>Gene :</b>	SEMA4D
<b>Gene ID :</b>	10507
<b>Format :</b>	Purified
<b>Alternative Name :</b>	COLL4, SEMA4D, semaphorin 4D,semaphorin 4D
<b>Isotype :</b>	Mouse IgM
<b>Immunogen Information :</b>	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

<b>Amount :</b>	0.1 mg
<b>Purification :</b>	Purified by protein-A affinity chromatography
<b>Content :</b>	1 mg/ml Formulation : Tris buffered saline (TBS), pH 8.0, 15 mM sodium azide
<b>Storage condition :</b>	Store at 2-8°C. Do not freeze.

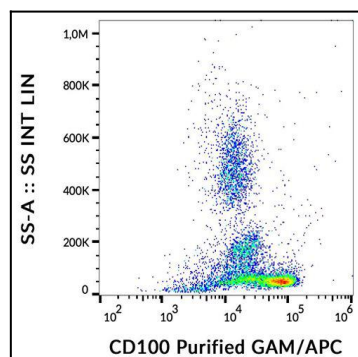


Figure 1 : Flow cytometry analysis (surface staining) of human peripheral blood with anti-CD100 (133-1C6) purified, GAM-APC.