

30-2669: Anti-Human CD100 PE (Clone : 133-1C6)

| | |
|--------------------------------|---|
| Clonality : | Monoclonal |
| Clone Name : | 133-1C6 |
| Application : | FACS |
| Reactivity : | Human |
| Conjugate : | PE |
| Gene : | SEMA4D |
| Gene ID : | 10507 |
| 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 : | 100 tests |
| Purification : | The purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography. |
| Content : | Formulation : Stabilizing phosphate buffered saline (PBS) solution containing 15 mM sodium azide |
| Storage condition : | Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. |

Application Note

Flow cytometry: The reagent is designed for analysis of human blood cells using 10 μ l reagent / 100 μ l of whole blood or 10^6 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

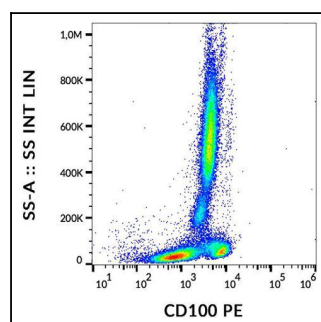


Figure 1 : Flow cytometry analysis (surface staining) of human peripheral blood with anti-CD100 (133-1C6) PE.