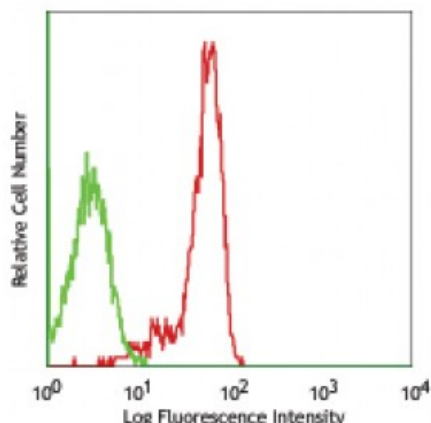


**Purified anti-human CD100**

**Catalog # / Size:** 2242005 / 25 µg  
**Clone:** A8  
**Isotype:** Mouse IgG1, κ  
**Immunogen:** Human PHA activated lymphocytes  
**Reactivity:** Human  
**Preparation:** The antibody was purified by affinity chromatography.  
**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.  
**Workshop Number:** V BP383, S233  
**Concentration:** 0.5



Human peripheral blood lymphocytes stained with purified A8, followed by anti-mouse IgG FITC

**Applications:**

**Applications:** Other

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤2.0 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

**Application References:** 1. Hall K, *et al.* 1996. *P. Natl. Acad. Sci. USA* 93:11780.  
 2. Mizrahi S, *et al.* 2007. *PLoS One.* 2(9):e818.  
 3. Yoshino N, *et al.* 2000. *Exp. Anim. (Tokyo)* 49:97. (FC)

**Description:** CD100, a 150 kD homodimer, is a novel semaphorin that induces B cells to aggregate and improves their viability in vitro. Semaphorins are neuronal chemorepellants that direct pioneering neurons during nervous system development. CD100 modifies CD40-CD40L B cell signaling by augmenting B cell aggregation and survival and down regulating CD23 expression. CD72 is a lymphocyte receptor for the class IV semaphorin CD100, which is involved in regulating B cell signaling. CD100 is expressed on resting and PHA stimulated T cells. The protein is weakly expressed on NK cells, EBV transformed B cells, monocytes and tumor/peripheral blood T cell lines, and at higher density on activated T cells and B cells.

**Antigen References:** 1. Schlossman SL Bloumsell W Gilks *et al.* eds. 1995. *Leucocyte Typing V: White Cell Differentiation Antigens.* Oxford University Press New York.  
 2. Bougeret CIG Mansur H Dastot *et al.* 1992. Increased surface expression of a newly identified 150 kDa