

Product Data Sheet

PE anti-human CD100

Catalog # / Size: 328407 / 25 tests
328408 / 100 tests

Clone: A8

Isotype: Mouse IgG1, κ

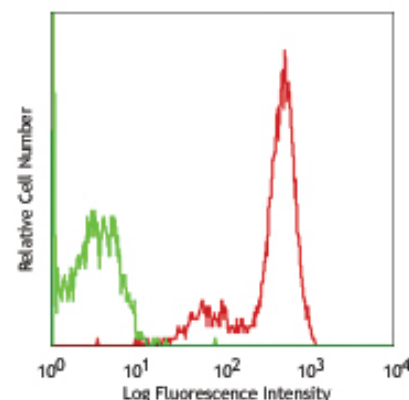
Immunogen: Human PHA activated lymphocytes

Reactivity: Human, **Cross-Reactivity:** Cynomolgus

Preparation: The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Human peripheral blood lymphocytes stained with A8 PE

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 μ l to 5 μ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 μ l staining volume or per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at www.biolegend.com/testsize regarding the test size change.

Application References:

- Hall K, et al. 1996. *P. Natl. Acad. Sci. USA* 93:11780.
- Mizrahi S, et al. 2007. *PLoS One*. 2(9):e818.
- 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:

- Schlossman SL Bloumsell W Gilks et al. eds. 1995. *Leucocyte Typing V: White Cell Differentiation Antigens*. Oxford University Press New York.
- Bougeret CIG Mansur H Dastot et al. 1992. Increased surface expression of a newly identified 150 kDa dimer early after human T lymphocyte activation. *J. Immunol.* 148:318.
- Knapp WB Dorken EP. Rieber et al, eds. 1989. *Leucocyte Typing IV: White Cell Differentiation Antigens*. Oxford University Press New York.

Related Products:

Product PE Mouse IgG1, κ Isotype Ctrl

Cell Staining Buffer

RBC Lysis Buffer (10X)

Human TruStain FcX™ (Fc Receptor Blocking Solution)

Clone

MOPC-21

Application

FC, ICFC

FC, ICC, ICFC

FC, ICFC

FC, ICC, ICFC



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