

FITC anti-human CD55

Catalog # / Size: 2156530 / 100 tests
2156525 / 25 tests

Clone: JS11

Isotype: Mouse IgG1, κ

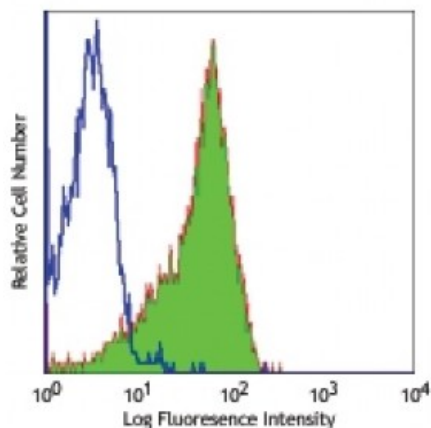
Reactivity: Human

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

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

Workshop Number: VI N-L060

Concentration: Lot-specific



Human peripheral blood lymphocytes stained with JS11 FITC

Applications:

Applications: Flow Cytometry

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 microL to 5 microL per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 microL staining volume or per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Application References:

1. Kishimoto T, *et al.* Eds. 1997. Leucocyte Typing VI. Garland Publishing Inc. London.
2. Peyron P, *et al.* 2000. *J. Immunol.* 165:5186
3. Nevo Y, *et al.* 2013. *Blood.* 121:129. [PubMed.](#)
4. Jeong YH, *et al.* 2013. *PLoS One.* 8:63241. [PubMed.](#)

Description: CD55 is a 60-70 kD glycosylphosphatidylinositol (GPI)-anchored single chain glycoprotein also known as decay-accelerating factor (DAF). It is expressed on hematopoietic cells including erythrocytes and many non-hematopoietic cells. CD55 accelerates the dissociation of the components of the C3-convertases (namely C2a from C4b in the C4bC2a complex, a C3-convertase of the classical pathway, and factor Bb from the C3bBb complex, a C3-convertase of the alternative pathway) to protect cells from inappropriate damage caused by autologous complement. CD55 has been reported to reduce the efficiency of NK cell lysis and induce signal transduction in T cells. CD55 has also been shown to interact with CD97 and bind to Coxsackie and Echovirus.

Antigen References:

1. Schlossman S, *et al.* Eds. 1995. Leucocyte Typing V. Oxford University Press. New York.
2. Hamann J, *et al.* 1996. *J. Exp. Med.* 184:1185.
3. Fujita T, *et al.* 1987. *J. Exp. Med.* 166:1221