SONY

Product Data Sheet

FITC anti-human CD48

Catalog # / Size: 2283530 / 100 tests
2283525 / 25 tests

Clone: BJ40

Isotype: Mouse IgG1,κ

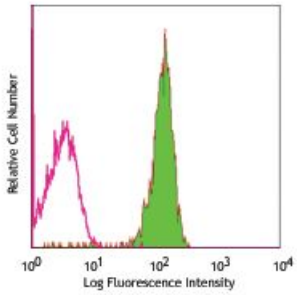
Reactivity: Human, Non-human primate, Other

Preparation: The antibody was purified by affinity chromatography, and conjugated with FITC under optimal conditions.

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

Workshop Number: V T-CD01.18

Concentration: Lot-specific



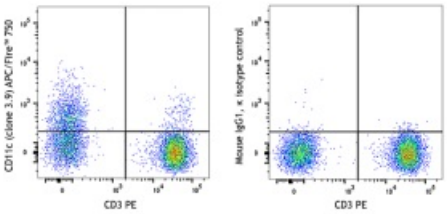
Human peripheral blood lymphocytes stained with BJ40 FITC

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

Application Notes: Additional reported applications (for the relevant formats) include: immunoprecipitation.



Human peripheral blood lymphocytes were stained with PE anti-human CD3 and APC/Fire™ 750 anti-human CD11c (clone 3.9) (left) or mouse IgG1, κ APC/Fire™ 750 isotype control (right).

Application References:

1. Kishimoto T, *et al.* 1997. *Leucocyte Typing VI:White Cell Differentiation Antigens.* Garland Publishing Inc.
2. Wang R, *et al.* 2012. *J. Leukoc Biol.* 91:299. PubMed

Description: CD48 is a 40-47 kD GPI-anchored membrane protein, also known as Blast-1 and HuLy-m3. It is a member of the CD2 family that contains 2 IgSF domains and is widely expressed on both resting and activated hematopoietic cells with the exception of granulocytes, platelets, and erythrocytes. CD48 binds to CD2 at a considerably (>100-fold) lower affinity than CD58. It is thought to contribute to T cell activation. The cytoplasmic tail of CD48 has been shown to bind to the kinases Lck and Fyn.

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Antigen References:

1. Fisher RC and Thorley-Lawson DA. 1991. *Mol. Cell. Biol.* 11:1614.
2. Korinek V, *et al.* 1991. *Immunogenetics* 33:108.
3. Leukocyte Typing IV. Knapp W, *et al.* (Eds) Oxford University Press (1989)
4. Leukocyte Typing V. Schlossman S, *et al.* (Eds) Oxford University Press (1995)

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