SONY

Product Data Sheet

PerCP/Cyanine5.5 anti-human CD48

Catalog # / Size: 2283580 / 100 tests
2283575 / 25 tests

Clone: BJ40

Isotype: Mouse IgG1,κ

Immunogen: Human TLR8-transfected cells

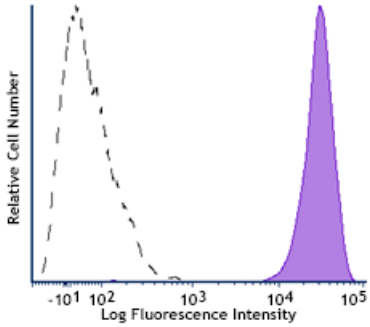
Reactivity: Human, Non-human primate, Other

Preparation: The antibody was purified by affinity chromatography and conjugated with PerCP/Cyanine5.5 under optimal conditions.

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

Workshop Number: V CD40.5

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with CD48 (clone BJ40) PerCP/Cyanine5.5 (filled histogram) or mouse IgG1, κ PerCP/Cyanine5.5 (open histogram).

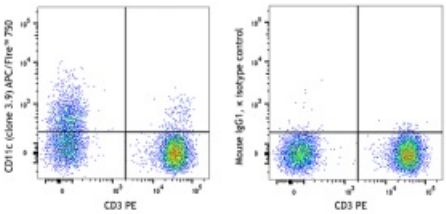
Applications:

Applications: Flow Cytometry

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 5 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.

* PerCP/Cyanine5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.

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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