

PE/Cyanine7 anti-human CD48

Catalog # / Size: 2283590 / 100 tests
2283585 / 25 tests

Clone: BJ40

Isotype: Mouse IgG1, κ

Immunogen: Yeast-expressed, recombinant mouse GM-CSF

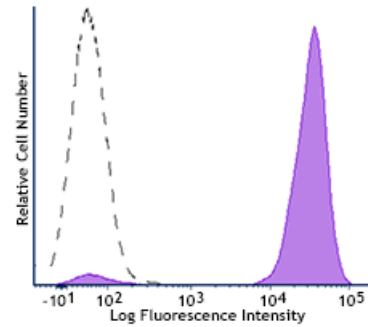
Reactivity: Human, Non-human primate, Other

Preparation: The antibody was purified by affinity chromatography and conjugated with PE/Cyanine7 under optimal conditions. The solution is free of unconjugated PE/Cyanine7 and unconjugated antibody.

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

Workshop Number: V CD01.01

Concentration: Lot-specific



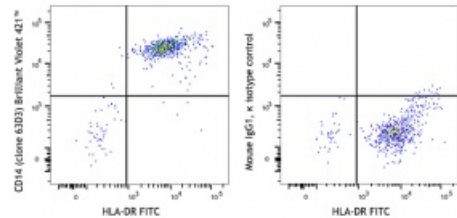
Human peripheral blood lymphocytes were stained with CD48 (clone BJ40) PE/Cyanine7 (filled histogram) or mouse IgG1, κ PE/Cyanine7 (open histogram).

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.

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



Human peripheral blood monocytes were stained with HLA-DR FITC and Brilliant Violet 421™ anti-human CD14 (clone 63D3) (left) or Brilliant Violet 421™ mouse IgG1, κ 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.

- 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)