SONY

# Product Data Sheet

## PerCP/Cyanine5.5 anti-human CD48

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

**Clone:** BJ40

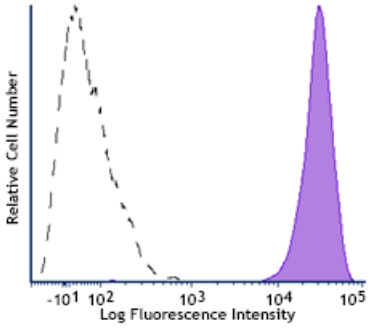
**Isotype:** Mouse IgG1, κ

**Reactivity:** Human, Non-human primate, Other

**Preparation:** The antibody was purified by affinity chromatography and conjugated with PerCP/Cyanine5.5 under optimal conditions. The solution is free of unconjugated PerCP/Cyanine5.5 and unconjugated antibody.

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

**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.

**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)



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