

Product Data Sheet

FITC anti-human CD172a/b (SIRP α/β)

Catalog # / Size: 337304 / 100 tests

Clone: 148

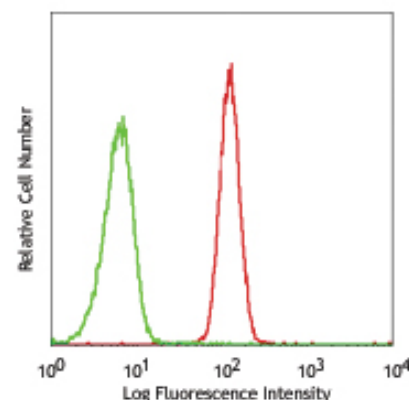
Isotype: Mouse IgG1, κ

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).

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Human peripheral blood granulocytes stained with 148 FITC

Applications:

Applications: FC - Quality tested

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 μ l to 5 μ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 μ l staining volume or per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at www.biolegend.com/testsize regarding the test size change.

Application Notes: Additional reported applications include: mAb 148 is specific for CD172a/b, and also stains CD172g transfected cells, but not T-lymphocytes

Application References:

1. Piccio L, *et al.* 2005. *Blood* 105:2421
2. Dietrich J, *et al.* 2000. *J. Immunol.* 164:9

Description: SIRPs (signal-regulatory proteins) are a family of transmembrane glycoproteins that belong to Ig superfamily. SIRPa (CD172a, SIRPb), (SIRPb1, CD172b), and SIRPg (SIRPb2, CD172g) have been described. CD172a/b molecules are expressed on myeloid cells and neurons. CD172a serves as a substrate of activated receptor tyrosine kinases (RTKs). The interaction of CD172a intracellular domain with SHP-1 and SHP-2 displays negative signaling in the regulation of leukocyte adhesion and transmigration. CD47 (IAP) is an extracellular ligand for CD172a. CD172b is a disulfide-linked homodimer. CD172b has been shown to regulate neutrophil transepithelial migration through the interaction with DAP12 and Syk kinase (through TYROBP).

Antigen References:

1. Kharitonov A, *et al.* 1997. *Nature* 386:181.
2. Tomasello E, *et al.* 2000. *Eur. J. Immunol.* 30:2147.
3. Seiffert M, *et al.* 2001. *Blood* 97:2741.
4. Timms JF, *et al.* 1998. *Mol. Cell Biol.* 18:3838.
5. Barclay AN and MH. Brown. 2006. *Nat. Rev. Immunol.* 6:457

Related Products:

Product
FITC Mouse IgG1, κ Isotype Ctrl (FC)
Cell Staining Buffer
RBC Lysis Buffer (10X)
Human TruStain FcX™ (Fc Receptor Blocking Solution)

Clone
MOPC-21

Application
FC
FC, ICC, ICFC
FC, ICFC
FC, ICC, ICFC



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