SONY

Product Data Sheet

PE anti-marmoset CD45

Catalog # / Size: 1851020 / 100 µg

Clone: 6C9

Isotype: Mouse IgG1

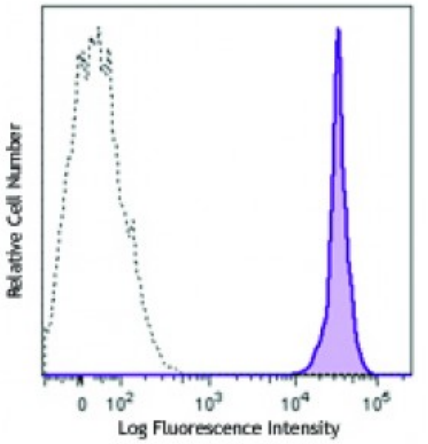
Immunogen: Marmoset mononuclear cells

Reactivity: Non-human primate

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

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.2



Marmoset peripheral blood lymphocytes were stained with CD45 (clone 6C9) PE (filled histogram) or mouse IgG1, κ PE isotype control (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 ≤0.125 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications (for the relevant formats) include: immunohistochemical staining of frozen spleen sections1 and Western blotting1. The 6C9 antibody has been reported to not cross-react with humans, cynomolgus monkeys, or squirrel monkeys.

Application References:

1. Ito R, *et al.* 2008. *Immunol. Lett.* 121:116. (IHC, WB)

Description: CD45 is a 180-240 kD single chain type I membrane glycoprotein also known as leukocyte common antigen (LCA) and T200. It is a tyrosine phosphatase expressed on the plasma membrane of all hematopoietic cells, except erythrocytes and platelets. CD45 is a signaling molecule that regulates a variety of cellular processes including cell growth, differentiation, cell cycle, and oncogenic transformation. CD45 plays a critical role in T and B cell antigen receptor-mediated activation by dephosphorylating substrates including p56Lck, p59Fyn, and other Src family kinases. CD45 non-covalently associates with lymphocyte phosphatase-associated phosphoprotein (LPAP) on T and B lymphocytes. CD45 has been reported to bind galectin-1 and to be associated with several other cell surface antigens including CD1, CD2, CD3, and CD4.

Antigen References:

1. Thomas M. 1989. *Annu. Rev. Immunol.* 7:339.
2. Trowbridge I and Thomas M. 1994. *Annu. Rev. Immunol.* 12:85.

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