

Product Data Sheet

FITC anti-mouse CD53

Catalog # / Size: 124705 / 50 µg
124706 / 200 µg

Clone: OX-79

Isotype: Rat IgM, κ

Immunogen: BAB/14 mouse macrophage cell line RAW264

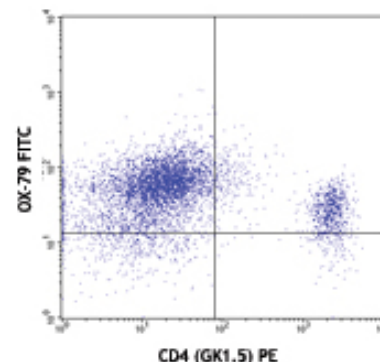
Reactivity: Mouse

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.

Concentration: 0.5 mg/ml

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



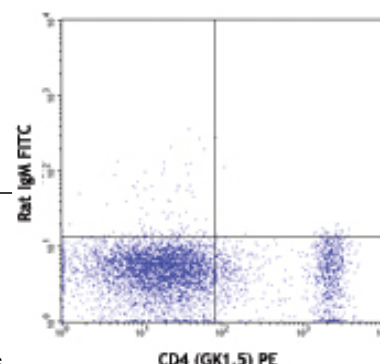
C57BL/6 splenocytes stained with OX-79 FITC and CD4 (GK1.5) PE

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application References: 1. Puls KL, *et al.* 2002. *Int. Immunol.* 14(3):249.



C57BL/6 splenocytes stained with rat IgM FITC isotype control and CD4 (GK1.5) PE

Description: CD53 is a pan-leukocyte surface glycoprotein which spans the plasma membrane four times and is a member of the transmembrane 4 superfamily (TM4SF). CD53 is highly conserved in evolution, mouse CD53 was 91% identical to rat and 82% identical to human CD53. Mouse CD53 has a molecular mass of 35-45 kD and expresses on virtually all peripheral leukocytes, immature CD4-CD8- double negative thymocytes, and functionally mature CD4+CD8- or CD4-CD8+ single positive subsets. CD53 is proposed to play an important role in thymopoiesis and leukocyte signal transduction. It was reported that CD53 interact with a number of proteins, including CD2, CD9, CD19, and CD21. Cross-linking of CD53 promotes B cell activation. It was found that there is a strong correlation between CD53 expression and positive selection of thymocytes.

Antigen References: 1. Camo AM, *et al.* 1995. *Eur. J. Immunol.* 25(7):2090
2. Tomlinson MG, *et al.* 1995. *Eur. J. Immunol.* 25(8):2201
3. Angelisova P, *et al.* 1994. *Immunogenetics.* 39(4):249
4. Wright MD, *et al.* 1993. *Int. Immunol.* 5(2):209
5. Rasmussen A, *et al.* 1994. *J. Immunol.* 153:4997.

Related Products:

Product
 FITC Rat IgM, κ Isotype Ctrl
 Cell Staining Buffer
 RBC Lysis Buffer (10X)
 TruStain fcX™ (anti-mouse CD16/32)

Clone
 RTK2118

93

Application

FC
 FC, ICC, ICFC
 FC, ICFC
 FC



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