

## Purified anti-mouse CD53

**Catalog # / Size:** 124701 / 50 µg  
124702 / 500 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.

**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.

## Applications:

**Applications:** FC - *Quality tested*  
WB - *Reported in the literature*

**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.

**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

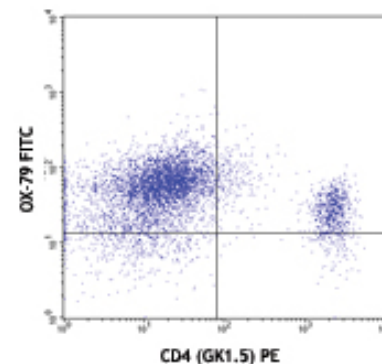
### Related Products:

**Product**  
Purified Rat IgM, κ Isotype Ctrl  
Cell Staining Buffer  
RBC Lysis Buffer (10X)

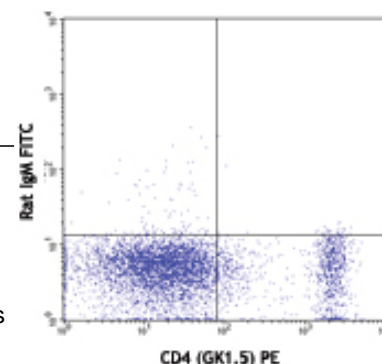
**Clone**  
RTK2118

### Application

FC, ICC, ICFC, IF, IHC, IP, WB  
FC, ICC, ICFC  
FC, ICFC



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



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



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