

# Product Data Sheet

## Biotin anti-rat CD53

**Catalog # / Size:** 204303 / 100 µg

**Clone:** OX-44

**Isotype:** Mouse IgG1, κ

**Immunogen:** Rat T cell blasts

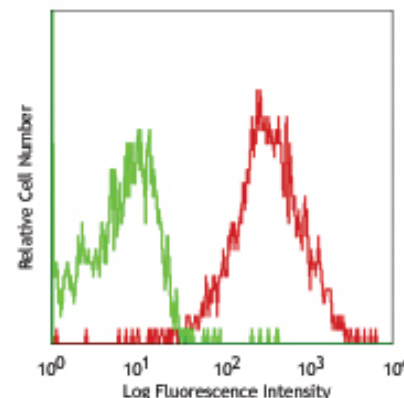
**Reactivity:** Rat

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

**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. **Do not freeze.**



LOU rat splenocytes stained with OX-44 biotin, followed by Sav-PE

## Applications:

**Applications:** FC - *Quality tested*  
 IHC, IP, IF - *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 ≤1.0 µg per million cells in 100 µl 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: immunoprecipitation, immunofluorescence microscopy, immunohistochemical staining for formalin-fixed paraffin-embedded tissue sections, and induction of cell adhesion.

**Application References:** 1. Lazo PA, *et al.* 1997. *Cellular Immunol.* 178:132

**Description:** CD53 is a 35-45 kD type III tetraspan membrane protein. It is expressed on all leukocytes and a subset of thymocytes, but not on platelets, erythrocytes, or non-hematopoietic cells. CD53 has been proposed to be involved in signal transduction and thymopoiesis. It has been shown to interact with a number of proteins, including IL-4, CD20, CD2, CD9, IL-2, VLA-4, and CD4. Cross-linking of CD53 promotes B cell activation. The CD53 antigen is highly glycosylated and treatment with endoglycosidase F reduces the apparent molecular weight of this protein by approximately 25kD.

**Antigen References:** 1. Lazo PA, *et al.* 1997. *Cellular Immunol.* 178:132

### Related Products:

**Product**  
 Biotin Mouse IgG1, κ Isotype Ctrl  
 Cell Staining Buffer  
 RBC Lysis Buffer (10X)

**Clone**  
 MOPC-21

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



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