

Biotin anti-rat CD45

Catalog # / Size: 202203 / 100 µg

Clone: OX-1

Isotype: Mouse IgG1, κ

Immunogen: Enriched glycoprotein fraction from Wistar rat thymocytes

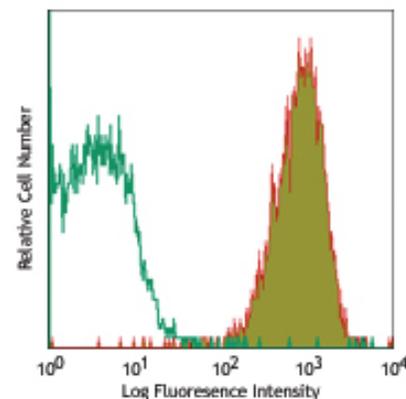
Reactivity: Rat

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 and 0.5% BSA (origin U.S.)

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. **Do not freeze.**



LOU rat splenocytes stained with biotinylated OX-1, followed by Sav-PE

Applications:

Applications: FC - *Quality tested*
IHC, 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 ≤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 Notes: Additional reported applications (for the relevant formats) include: immunoprecipitation¹, immunofluorescence microscopy (acetone fixed, ammonium-thiocyanate separated epidermal sheets)², immunohistochemistry of acetone³-, isopentane⁴-, PLP⁵-, and n-hexane⁶ fixed frozen sections and zinc-fixed paraffin-embedded sections, and partial inhibition of NK cell lysis of syngeneic tumor cell lines¹.

Application References:

1. Giezeman-Smits KM, *et al.* 1999. *J. Immunol.* 163:71. (IP)
2. Elbe A, *et al.* 1994. *J. Invest. Dermatol.* 102:74. (IF)
3. Kouwenhoven E, *et al.* 2001. *Kidney Int.* 59:1142. (IHC)
4. Martin A, *et al.* 1995 *Clin. Exp. Immunol.* 22:283. (IHC)
5. Sayegh MH, *et al.* 1995 *J. Exp. Med.* 181:186. (IHC)
6. Morioka Y, *et al.* 2000. *Kidney Int.* 60:2192. (IHC)

Description: CD45 is a 180-220 kD protein also known as leukocyte common antigen (LCA). It is a protein tyrosine phosphatase with multiple isoforms differing as a result of alternative splicing of the extracellular domain and glycosylation. CD45 is expressed on all hematopoietic cells except erythrocytes and platelets; isoform expression depends on cell type, activation state, and cell maturation. CD45 functions in signal transduction through T and B cell antigen receptors. CD45 has been shown to interact with various proteins including galectin-1, CD2, CD3, and CD4. The OX-1 antibody has been shown to partially inhibit NK cell-mediated lysis of syngeneic tumor cells *in vitro*.

Antigen References:

1. Sunderland CA, *et al.* 1979. *Eur. J. Immunol.* 9:155.
2. Woolett GR, *et al.* 1985. *Eur. J. Immunol.* 15:168.

Related Products:

Product
Biotin Mouse IgG1, κ Isotype Ctrl
APC Streptavidin
HRP Streptavidin
PE Streptavidin
PE/Cy5 Streptavidin
Cell Staining Buffer

Clone
MOPC-21

Application
FC, ICFC
FC, ICFC
ELISA, ELISPOT, IHC, WB
FC, ICFC
FC, ICFC
FC, ICC, ICFC



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