PE/Cy7 anti-rat CD45

Catalog # / Size: $1611070 / 100 \mu g$

1611065 / 25 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

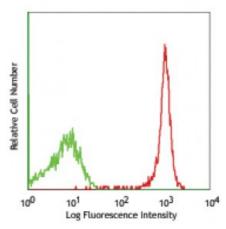
chromatography, and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7

and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide.

Concentration: 0.2



Lou rat splenocyte stained with OX-

1 PE/Cy7

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 \leq 0.25 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:

immunoprecipitation1, immunofluorescence microscopy (acetone fixed,

ammonium-thiocyanate separated epidermal sheets)2, immunohistochemistry of acetone3-, isopentane-4, PLP5-, and n-hexane⁶ fixed frozen sections and paraffinembedded sections^{7,8}, 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)

7. Ng YY, et al. 2005. Kidney Int. 94:S83. (IHC-P) 8. Huang XR, et al. 2003. JASN. 14:1738. (IHC-P)

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*.

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