## **Product Data Sheet**

## FITC anti-rat CD45

Catalog # /  $1611025 / 100 \mu g$ 

Size:

Clone: OX-1

**Isotype:** Mouse IgG1, κ

Immunogen: Enriched glycoprotein fraction from

Wistar rat thymocytes

Reactivity: Rat

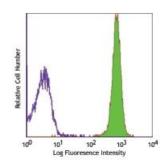
**Preparation:** The antibody was purified by affinity

chromatography, and conjugated with 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



LOU rat splenocytes stained with

OX-1 FITC

## **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-hexane<sup>6</sup> fixed frozen sections and paraffin-embedded sections<sup>7,8</sup>, and partial

inhibition of NK cell lysis of syngeneic tumor cell lines 1.

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. References: For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held

**Antigen**