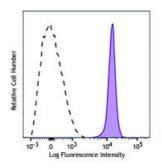
Product Data Sheet

APC/Fire[™] 750 anti-rat CD45

Catalog # / Size:	1611105 / 25 μg 1611110 / 100 μg
Clone:	OX-1
lsotype:	Mouse IgG1, κ
Immunogen:	Enriched glycoprotein fraction from Wistar rat thymocytes
Reactivity:	Rat
Preparation:	The antibody was purified by affinity chromatography and conjugated with APC/Fire™
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Workshop Number:	750 under optimal conditions.
Concentration:	0.2 mg/ml



LOU rat splenocytes were stained with CD45 (clone OX-1) APC/Fire[™] 750 (filled histogram) or mouse IgG1, ĸ APC/Fire[™] 750 isotype control (open histogram).

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 $\leq 0.5 \ \mu$ g per million cells in 100 μ l volume. It is recommended that the reagent be titrated for optimal performance for each application.
	* APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 787 nm.
Application Notes:	Additional reported applications (for the relevant formats) include: immunoprecipitation ¹ , immunofluorescence microscopy (acetone fixed, ammonium-thiocyanate separated epidermal sheets) ² , immunohistochemistry of acetone ³ -, isopentane- ⁴ , PLP ⁵ -, and n-hexane ⁶ fixed frozen sections and paraffin-embedded sections ^{7,8} , and partial inhibition of NK cell lysis of syngeneic tumor cell lines ¹ .
Application References:	 Giezeman-Smits KM, et al. 1999. J. Immunol. 163:71. (IP) Elbe A, et al. 1994. J. Invest. Dermatol. 102:74. (IF) Kouwenhoven E, et al. 2001. Kidney Int. 59:1142. (IHC) Martin A, et al. 1995 Clin. Exp. Immunol. 22:283. (IHC) Sayegh MH, et al. 1995 J. Exp. Med. 181:186. (IHC) Morioka Y, et al. 2000. Kidney Int. 60:2192. (IHC) Ng YY, et al. 2005. Kidney Int. 94:S83. (IHC-P) Huang XR, et al. 2003. JASN. 14:1738. (IHC-P)

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products. Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com **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
 1. Sunderland CA, et al. 1979. Eur. J. Immunol. 9:155.

 References:
 2. Woolett GR, et al. 1985. Eur. J. Immunol.. 15:168.