

Mouse anti-Rat CD45 Monoclonal Antibody | anti-CD45 antibody

Anti-Rat CD45 Biotin (Clone OX-1) (mouse IgG1)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA74151	Mouse	Rat	Flow Cytometry, Functional Assay, Immunohistochemistry

PRODUCT SYNONYMS

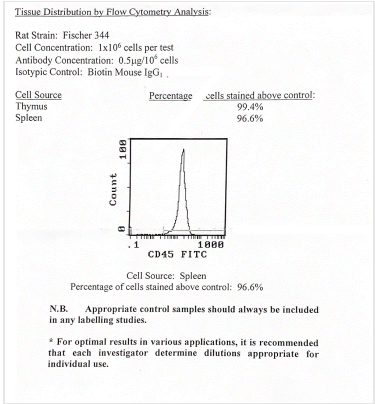
CD45; Monoclonal Antibody; Anti-Rat CD45 Biotin (Clone OX-1) (mouse IgG1); CD45 Biotin (Clone OX-1) (mouse IgG1); Biotin Anti-Rat CD45 Monoclonal Antibody; anti-CD45 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Rat
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Number	OX-1
Specificity	CD45 (LCA) (Rat Leukocyte Common Antigen)
Form/Format	Biotin (Biotin conjugated Ig buffered in PBS, 0.02% NaN ₃ and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml. (Purified from ascitic fluid via Protein G Chromatography))
Concentration	Antibody Concentration: 0.1 mg/ml (varies by lot)
Sequence Length	1246
Applicable Applications for anti-CD45 antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry)
Immunogen	Rat thymocyte membrane glycoproteins
Donor	BALB/c Spleen
Fusion Partner	NSI/1-Ag4-1
Presentation	100 ug or 500 ug Biotin conjugated Ig buffered in PBS, 0.02% NaN ₃ and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml.
Flow Cytometry Analysis	1. Prepare a cell suspension in media A. For cell preparations, deplete the red blood cell population concentration to 4-5 mg/ml with Lympholyte-M cell separation medium 2. Wash 2 times. 3. Resuspend the cells to a concentration of 2x10⁷ cells/ml in media A. Add 50 ul of this suspension to each tube (each tube will then contain 1x10⁶ cells, representing 1 test). 4. To each tube, add 1.0-0.5 ug of per 10⁶ cells. 5. Vortex the tubes to ensure thorough mixing of antibody and cells. 6. Incubate the tubes for 30 minutes at 4°C. 7. Wash 2 times at 4°C. 8. Add 100 ul of secondary antibody (Streptavidin-FITC) at a 1:500 dilution 9. Incubate tubes at 4°C for 30 - 60 minutes (It is recommended that tubes are protected from light since most fluorochromes are light sensitive). 10. Was 2 times at 4°C 11. Resuspend the cell pellet in 50 ul ice cold media B. 12. Transfer to suitable tubes for flow cytometric analysis containing 15 ul of propidium iodide at 0.5 mg/ml in PBS. This stains dead cells by intercalating in DNA.

Media	A. Phosphate buffered saline (pH 7.2) + 5% normal serum of host species + sodium azide (100 ul of 2 M sodium azide in 100 mls.) B. Phosphate buffered saline (pH 7.2) + 5% bovine serum albumin + sodium azide (100 ul of 2 M sodium azide in 100 mls.)
Strain Distribution	Procedure: As above Antibody Concentration: 0.05ug/10⁶ cells Strains Tested: Wistar, Fischer 344 Positive: Wistar, Fischer 344 Negative: None
Preparation and Storage	Store at 4°C. For long term storage, aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

IMAGES



Application Data

ADDITIONAL INFORMATION

Related Product Information for anti-CD45 antibody	Biotin anti-rat CD45 monoclonal antibody was raised against rat leukocyte common antigen and with this it was shown that the antigen existed in different forms on different lymphoid cell types. The thymocyte, T lymphocyte and B lymphocyte forms were found at about 180, 200 (multiple bands) and 240 (broad band) kDa, respectively [2]. This molecule carries much of the carbohydrate of thymocytes and shows interesting heterogeneity amongst T lymphocytes and B lymphocytes. Applications include: Flow cytometry and this clone is reported to work with frozen sections.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	74095921
NCBI GeneID	445949
NCBI Accession #	NP_001027788.1
NCBI GenBank Nucleotide #	NM_001032616.1
NCBI Official Full Name	CD45
NCBI Official Symbol	ptprc
NCBI Protein Information	CD45

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.