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Datasheet for 200-508-N85

CD45.1 Phycoerythrin Antibody

Overview

Description:	Anti-CD45.1 (MOUSE) Phycoerythrin Conjugated Monoclonal Antibody - 200-508-N85
Item No.:	200-508-N85
Size:	100 µg
Applications:	FC
Reactivity:	Mouse
Host Species:	Mouse

Product Details

Background:	The A20 antibody reacts with mouse CD45.1, also known as Ly5.1, which is a strain-specific allelic form of the CD45 Leukocyte Common Antigen (LCA). Functionally, CD45 is a protein tyrosine phosphatase whose broad cell distribution supports a critical role in many leukocyte functions, including regulation of signal transduction and cell activation associated with the T cell and B cell receptors. The A20 antibody is typically used as a leukocyte marker in Ly5.1 mouse strains: SJL/J, DA, STS/A and RIII. The antibody has been demonstrated to specific for CD45.1 and is not cross-reactive with CD45.2 bearing cells.
Synonyms:	Receptor-type tyrosine-protein phosphatase C, , ukocyte common antigen, L-CA, Lymphocyte antigen 5, Ly-5, T200, CD45, Ptprc, Ly-5
Host Species:	Mouse
Conjugate:	R-Phycoerythrin (RPE)
Clonality:	Monoclonal
Clone ID:	A20
Format:	IgG2a
F/P Ratio:	1-2

Target Details

Gene Name:	Ptprc
Reactivity:	Mouse

Immunogen:	Anti-CD45.1 Antibody (Monoclonal) was produced by repeated immunizations with CD45.1 antigen.
Purity/Specificity:	Phycoerythrin conjugated CD45.1 Monoclonal Antibody was purified from tissue culture supernatant via affinity chromatography and is directed against mouse CD45.1. Cross reactivity is observed with human and Feline. Cross-reactivity with CD45.1 from other sources has not been tested. Anti-CD45.1 is conjugated with PE under optimal conditions and the solution is free of unconjugated PE.
Relevant Links:	• UniProtKB - P06800

Application Details

Tested Applications:	FC
Application Note:	Anti-CD45.1 is tested for Flow Cytometry and useful Immunoprecipitation and Immunohistochemistry using mouse spleen cells, or an appropriate cell type (where indicated). Researchers should determine optimal titers for applications that are not stated.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
FC:	10 µL/10^6 cells (0.1 µg)
IHC:	User Optimized
IP:	User Optimized

Formulation

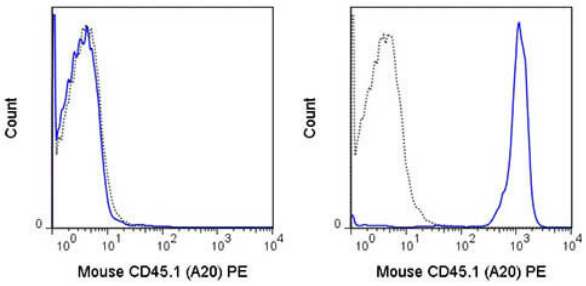
Physical State:	Liquid (sterile filtered)
Concentration:	0.2 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.09% (w/v) Sodium Azide
Stabilizer:	0.1% Gelatin

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vial at 4° C prior to opening. Dilute only prior to immediate use. This product is stable at 4° C as an undiluted liquid. Use subdued lighting during handling and incubation of cells prior to analysis. Store reagent in the dark. DO NOT FREEZE.

Expiration: Expiration date is six (6) months from date of receipt.

Images



Flow Cytometry
Flow Cytometry of anti-CD45.1 Phycoerythrin Conjugated Monoclonal Antibody. Cells: C57Bl/6 splenocytes (left panel) or SJL splenocytes (right panel). Stimulation: None. Antibody: 0.5 ug Phycoerythrin Anti-CD45.1 antibody (solid line) or 0.5 ug PE Mouse IgG2a isotype control (dashed line).

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