

Datasheet for 200-502-N84

CD45R (B220) Fluorescein Antibody**Overview**

Description:	Anti-CD45R (B220) (RAT) Fluorescein Conjugated Monoclonal Antibody - 200-502-N84
Item No.:	200-502-N84
Size:	500 µg
Applications:	FC
Reactivity:	Human, Mouse
Host Species:	Rat

Product Details

Background:	The RA3-6B2 antibody reacts with the human and mouse CD45 isoform known as CD45R, or B220, a protein tyrosine phosphatase of 220 kDa. CD45 is one of the most abundant hematopoietic markers, and is expressed on all leukocytes (the Leukocyte Common Antigen, LCA). Various isoforms are generated and expressed in cell-specific patterns, all critical for leukocyte function. In mouse, the CD45R/B220 isoform is predominantly found on B cells, at varying levels on all stages from pro-B cells to activated B cells, and may also be detected on certain T cell and NK cell subsets. It is of note that B220 is not similarly expressed on human B cells, where it appears to be differentiation-specific and therefore expressed on only some B cell subsets. Other forms of CD45 with restricted cellular expression include CD45RA, CD45RB, CD45RO and several others. The RA3-6B2 antibody is one of the most consistently used leukocyte markers for B cells, T cell subsets and NK cell subsets in human and mouse. This antibody has also been reported as cross-reactive with feline CD45R/B220.
Synonyms:	Receptor-type tyrosine-protein phosphatase C, , ukocyte common antigen, L-CA, Lymphocyte antigen 5, Ly-5, T200, CD45, Ptprc, Ly-5
Host Species:	Rat
Conjugate:	Fluorescein (FITC)
Clonality:	Monoclonal
Clone ID:	RA3-6B2
Format:	IgG2a
F/P Ratio:	2-8

Target Details

Gene Name:	Ptprc
Reactivity:	Human, Mouse
Immunogen:	Anti-CD45R (B220) Antibody (Monoclonal) was produced by repeated immunizations with CD45R antigen.
Purity/Specificity:	Fluorescein conjugated CD45R (B220) Monoclonal Antibody was purified from tissue culture supernatant via affinity chromatography and is directed against mouse CD45R. Cross reactivity is observed with human and Feline. Cross reactivity with CD45R from other sources has not been tested. Anti-CD45R is conjugated with FITC under optimal conditions and the solution is free of unconjugated FITC.
Relevant Links:	• UniProtKB - P06800

Application Details

Tested Applications:	FC
Application Note:	Anti-CD45R (B220) is tested for Flow Cytometry and useful for Immunoprecipitation, Immunohistochemistry, Immunofluorescence, and Western Blot 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 μ L/10 ⁶ cells (0.1 μ g)
IF:	User Optimized
IHC:	User Optimized
IP:	User Optimized
WB:	User Optimized

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.5mg/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

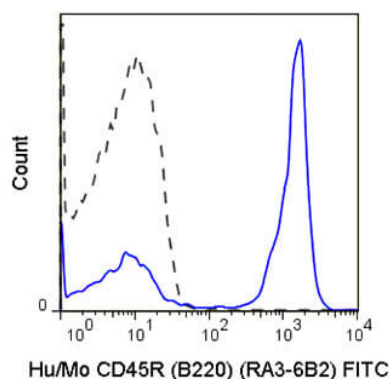
Shipping & Handling

Shipping Condition: Wet Ice

Storage Condition: Store vial at 4° C prior to opening. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. DO NOT FREEZE. This product is light sensitive.

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

Images



Flow Cytometry

Flow Cytometry of anti-CD45R (B220) Fluorescein Conjugated Monoclonal Antibody. Cells: C57Bl/6 splenocytes. Stimulation: None. Antibody: Fluorescein Anti-CD45R (B220) antibody 0.25 ug (solid line) or 0.25 ug FITC Rat IgG2a isotype control (dashed line).

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.