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Datasheet for 200-302-N70

CD45RA Fluorescein Antibody

Overview

Description:	Anti-CD45RA (MOUSE) Fluorescein Conjugated Monoclonal Antibody - 200-302-N70
Item No.:	200-302-N70
Size:	500 µL
Applications:	FC
Reactivity:	Human
Host Species:	Mouse

Product Details

Background:	The HI100 antibody reacts with the human CD45 isoform known as CD45RA, 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. With their broad cell distribution, CD45 isoforms are critical for many leukocyte functions, regulating signal transduction and cell activation associated with the T cell receptor, B cell receptor, and IL-2 receptor. Other forms of CD45, with restricted cellular expression, include CD45R (B220), CD45RB, CD45RO and others. The HI100 antibody is widely used as a marker for human CD45RA expression on naïve and activated T cells, B cells, and monocytes.
Synonyms:	CD9 antigen, 5H9 antigen, Cell growth-inhibiting gene 2 protein, Leukocyte antigen MIC3, Motility-related protein, MRP-1, Tetraspanin-29, Tspan-29, p24, CD9, MIC3, TSPAN29, GIG2
Host Species:	Mouse
Conjugate:	Fluorescein (FITC)
Clonality:	Monoclonal
Clone ID:	HI100
Format:	IgG2b
F/P Ratio:	2-8

Target Details

Gene Name:	CD9

Reactivity:	Human
Immunogen:	Anti-CD45RA Antibody (Monoclonal) was produced by repeated immunizations with CD45RA antigen.
Purity/Specificity:	Fluorescein conjugated CD45RA Monoclonal Antibody was purified from tissue culture supernatant via affinity chromatography and is directed against human CD45RA. Reactivity is observed against human CD45RA. Cross reactivity is observed with Chimpanzee. Reactivity with CD45RA from other sources has not been tested. Anti-CD45RA is conjugated with FITC under optimal conditions and the solution is free of unconjugated FITC.
Relevant Links:	• UniProtKB - P21926 • NCBI - NP_001760.1 • GeneID - 928

Application Details

Tested Applications:	FC
Application Note:	Anti-CD45RA is tested for Flow Cytometry and is useful in Immunohistochemistry and Western Blot. 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:	5 uL/test/1x10e5 to 1x10e8 cells
IHC:	User Optimized
WB:	User Optimized

Formulation

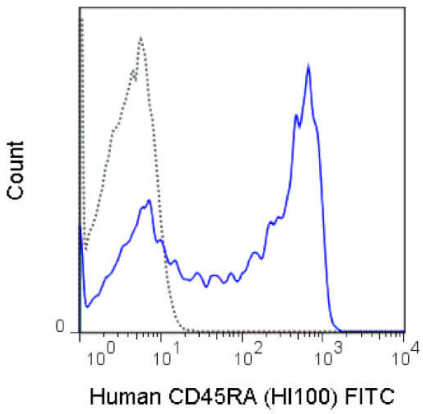
Physical State:	Liquid (sterile filtered)
Concentration:	0.2mg/mL Sufficient to run approximately 100 tests
Buffer:	0.01 M Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.09% (w/v) Sodium Azide
Stabilizer:	0.1% Gelatin

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 Mouse anti-CD45RA Fluorescein Conjugated Monoclonal Antibody. Cells: Human peripheral blood lymphocytes. Stimulation: none. Antibody: (Black dotted line) FITC Rat IgG2b isotype control; (Blue) Fluorescein Anti-CD45RA mouse antibody using 5 ul.

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.