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Datasheet for 200-302-M68

CD47 Fluorescein Antibody

Overview

Description:	Anti-CD47 (MOUSE) Monoclonal Antibody Fluorescein Conjugated - 200-302-M68
Item No.:	200-302-M68
Size:	100 µL
Applications:	FC
Reactivity:	Human
Host Species:	Mouse

Product Details

Background:	CD47, originally named integrin-associated protein (IAP), is a 50-kDa protein containing five membrane spanning sequences and a short cytoplasmic tail. CD47 appears to be important in myeloid cell activation and migration across endothelial and epithelial monolayers. Anti-CD47 antibody has been shown to inhibit polymorphonuclear neutrophil (PMN) transmigration across cell monolayers and matrix. CD47 and its ligands, thrombospondin 1 (TSP-1) and SIRP-a, are important regulators of dendritic cells. Recently, it has been shown that CD47 and TLR2 cross-talk to regulate PMN transmigration. The activation of TLR2/6 by MALP-2, a TLR2 specific agonist, potently inhibits human and murine PMN transmigration. The cross-talk between TLR2 and CD47 may be mediated through MYD88.
Synonyms:	Leukocyte surface antigen CD47, Antigenic surface determinant protein OA3, Integrin-associated protein, IAP, Protein MER6, CD47
Host Species:	Mouse
Conjugate:	Fluorescein (FITC)
Clonality:	Monoclonal
Clone ID:	B6H12.2
Format:	IgG1
F/P Ratio:	2-8

Target Details

Gene Name:	CD47

Reactivity:	Human
Immunogen:	Anti-CD47 Antibody (Monoclonal) was produced by repeated immunizations with CD47 antigen.
Purity/Specificity:	Fluorescein conjugated CD47 Monoclonal Antibody was Protein G Purified and is directed against human CD47. Reactivity is observed against human CD47. Cross reactivity with CD47 from other sources has not been tested.
Relevant Links:	• UniProtKB - Q08722 • NCBI - NP_001768.1 • GeneID - 961

Application Details

Tested Applications:	FC
Application Note:	Anti-CD47 has been tested in Flow Cytometry (Cell Surface) and is useful for Immunohistochemistry. 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/5 x 10^5 cells (0.5 µg)
IHC:	User Optimized

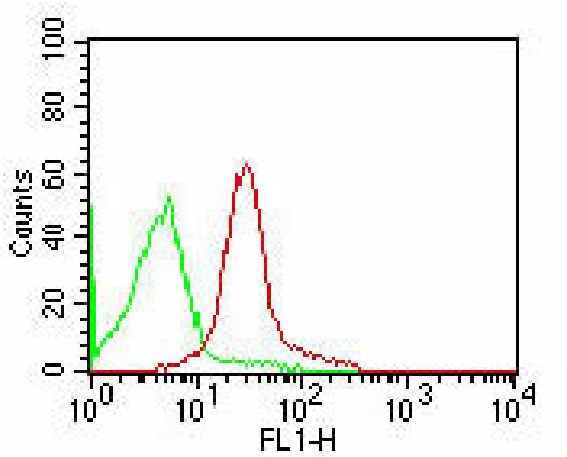
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.75 mg/mL Sufficient to run approximately 25 tests
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.05% (w/v) Sodium Azide

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
Cell Surface Flow Cytometry of Mouse anti-HUMAN CD47 antibody Fluorescein conjugated. Cells: 5 x 10^5 human PBMC. Stimulation: none. Antibody: (GREEN) isotype control antibody; (RED) Fluorescein Anti-CD47 mouse secondary antibody using 10µL.

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.