

Datasheet for 600-401-CS1**MD-1 Antibody****Overview**

Description:	Anti-MD-1 (RABBIT) Antibody - 600-401-CS1
Item No.:	600-401-CS1
Size:	100 µg
Applications:	ELISA, IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	Toll-like receptors (TLRs) are evolutionarily conserved pattern-recognition molecules that recognize different microbial products during infection and serve as an important link between the innate and adaptive immune responses. The signaling of these TLRs is kept under tight control by the expression of endogenous inhibiting proteins such as RP105, a recently identified homolog of TLR4. This protein, in association with MD-1, interacts with and inhibits the TLR4/MD-2 signaling pathway. While MD-2 can directly bind to LPS, one of the activating molecules of TLR4, the function of MD-1 is less well-known. It has been suggested however, that the RP105/MD-1 complex influences antibody production mediated by both TLR4/MD-2 and TLR2 receptor complexes.
Synonyms:	MD-1 Antibody, MD-1, MMD-1, dJ80N2.1, MD1, Lymphocyte antigen 86, Protein MD-1, Ly-86
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	LY86
Reactivity:	Human
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-MD-1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 14 amino acid synthetic peptide from near the C-terminus of human MD-1.
Purity/Specificity:	Anti-MD-1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with MD-1 from other sources has not been determined.
Relevant Links:	• UniProtKB - O95711 • GeneID - 9450 • NCBI - NP_004262

Application Details

Tested Applications:	ELISA, IHC, WB
Application Note:	Anti-MD-1 Antibody has been tested for use in ELISA, Western Blotting, and Immunohistochemistry. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 18 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5000 - 1:20,000
IHC:	2 µg/mL
WB:	0.5 - 2 µg/ml

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

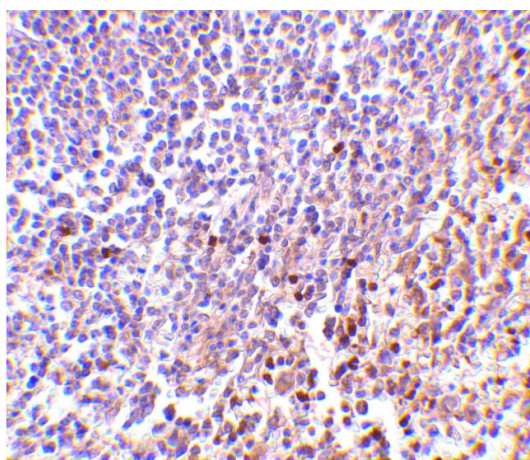
Shipping & Handling

Shipping Condition:	Dry Ice
----------------------------	---------

Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

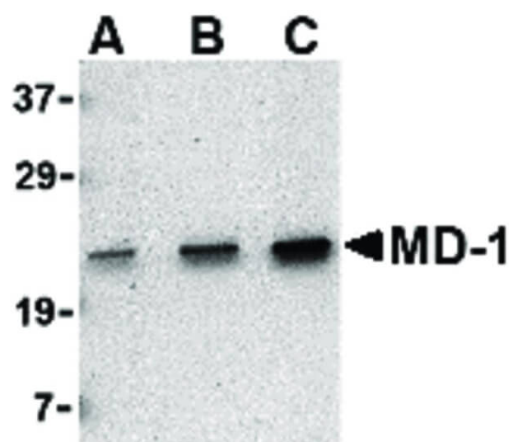
Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunohistochemistry

Immunohistochemistry of MD-1 antibody. Tissue: human spleen tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: MD-1 antibody at 2 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: MD-1 is nuclear and occasionally cytoplasmic. Staining: MD-1 as precipitated red signal with hematoxylin purple nuclear counterstain.



Western Blot

Western Blot of MD-1 antibody in Daudi cell lysate. Lane A: MD-1 antibody at 0.5 µg/mL. Lane B: MD-1 antibody at 1 µg/mL. Lane C: MD-1 antibody at 2 µg/mL. Load: 35 µg per lane. Primary antibody: MD-1 antibody at designated concentrations for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 18 kDa, 24 kDa for MD-1. Other band(s): MD-1 splice variants and isoforms.

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.