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Datasheet for 200-401-CS3

MD-2 Antibody

Overview

Description:	Anti-MD-2 (RABBIT) Antibody - 200-401-CS3
Item No.:	200-401-CS3
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	MD-2 is a member of the Toll/interleukin-1 receptor (TIR) family, a group of proteins that include the Toll-like receptors (TLRs). TLRs are signaling molecules that recognize different pathogen-associated molecular patterns (PAMPs) and serve as an important link between the innate and adaptive immune responses. TLR4, the major signaling receptor for lipopolysaccharide (LPS), requires the binding of MD-2 to its extracellular region for maximal response to LPS. The specificity of this response is determined by the species of MD-2; e.g., human MD-2 can cause mouse TLR4 to react to LPS analogs that are normally antagonistic to human but not mouse TLR4.
Synonyms:	MD-2 Antibody, MD2, MD-2, ly-96, ESOP-1, ESOP1, MD2, Lymphocyte antigen 96, Ly-96
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	LY96
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-MD-2 antibody was prepared from whole rabbit serum produced by repeated immunizations with a peptide corresponding to amino acids near the internal region of human MD-2.

Purity/Specificity:	Anti-MD-2 Antibody is affinity chromatography purified via peptide column. Cross reactivity with MD-2 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9Y6Y9 • GeneID - 23643 • NCBI - NP_056179

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-MD-2 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry, and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 19 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
IF:	10 µg/mL
IHC:	2 µg/mL
WB:	0.5 - 2 µg/ml

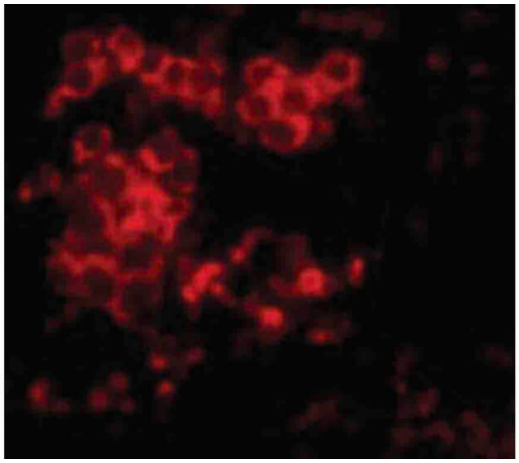
Formulation

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

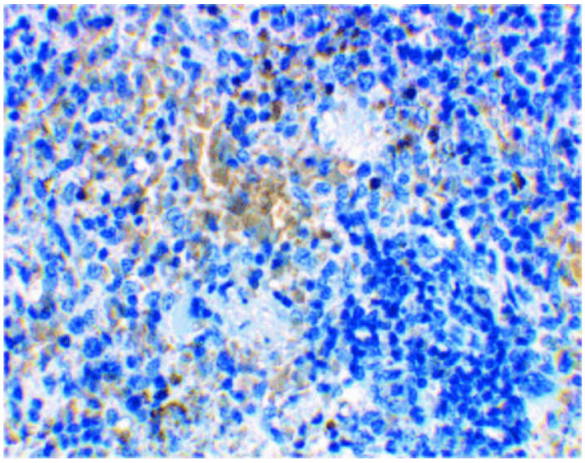
Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.
Expiration:	Expiration date is one (1) year from date of receipt.

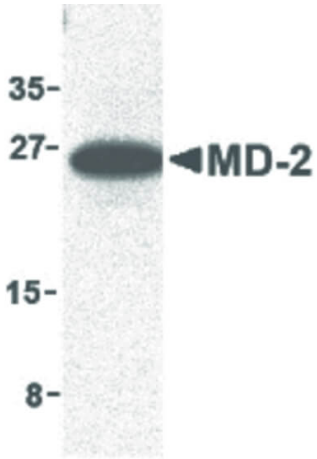
Images



Immunofluorescence Microscopy
Immunofluorescence Microscopy of MD-2 antibody. Tissue: rat spleen cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: MD-2 antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: MD-2 is located in the endosome membrane and extracellular space. Staining: MD-2 as red fluorescent signal.



Immunohistochemistry
Immunohistochemistry of MD-2 antibody. Tissue: rat spleen cells. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: MD-2 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-2 is located in the endosome membrane and extracellular space. Staining: MD-2 is stained with toluidine blue.



Western Blot
Western Blot of MD-2 antibody. Lane 1: mouse spleen cell lysate. Load: 35 µg per lane. Primary antibody: MD-2 antibody at 1 µg/mL 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: 19 kDa, 25 kDa for MD-2. Other band(s): MD-2 splice variants and isoforms.

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