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Datasheet for 200-301-I31

TLR9 Antibody

Overview

Description:	Anti-TLR9 (MOUSE) Monoclonal Antibody - 200-301-I31
Item No.:	200-301-I31
Size:	100 µg
Applications:	Dot Blot, FC, IF, IHC, IP, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Mouse

Product Details

Background:	Anti-TLR9 CD289 Antibody detects human TLR9 CD289. The Toll-like receptor (TLR) family in mammal comprises a family of transmembrane proteins characterized by multiple copies of leucine rich repeats in the extracellular domain and IL-1 receptor motif in the cytoplasmic domain. Like its counterparts in Drosophila, TLRs signal through adaptor molecules. The TLR family is a phylogenetically conserved mediator of innate immunity that is essential for microbial recognition. Ten human homologs of TLRs (TLR1-10) have been described. By using a BLAST search, a cDNA coding for TLR9 has been identified and subsequently isolated. Gene knockout experiments suggest that TLR9 acts as a receptor for unmethylated CpG dinucleotides in the bacterial DNA. Human and mouse TLR9 share an overall amino-acid identity of 75.5%. TLR9 is highly expressed in spleen. Anti-TLR9 CD289 Antibody is ideal for investigators involved in cytokines and growth factor research.
Synonyms:	Toll-like receptor 9
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	26C593.2
Format:	IgG1

Target Details

Gene Name:	TLR9
Reactivity:	Human, Mouse, Rat

Immunogen Type:	Conjugated Peptide
Immunogen:	TLR9 Antibody was produced in mice prepared repeated immunizations with amino acids corresponding to an internal sequence of human TLR9 isoform A protein.
Purity/Specificity:	Anti-TLR9 Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with Anti-TLR9 from monkey based on 100% homology with the immunizing sequence. Cross-reactivity with Anti-TLR9 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9NR96 • NCBI - NP_059138.1 • GeneID - 54106

Application Details

Tested Applications:	Dot Blot, FC, IF, IHC, IP, WB
Application Note:	Anti-TLR9 Antibody is tested for use in WB, DB, ELISA, Flow, Flow-IC, ICC/IF, IHC, IHC-P, and IP. Expect a band approximately 113kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
FC:	0.1-2 µg/10^6 cells
IHC:	10-20 µg/mL (frozen)
WB:	1-5 µg/mL

Formulation

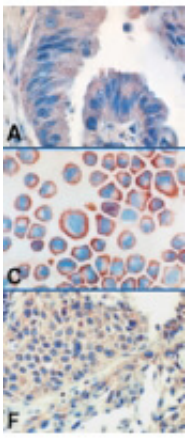
Physical State:	Liquid
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.05% (w/v) Sodium Azide

Shipping & Handling

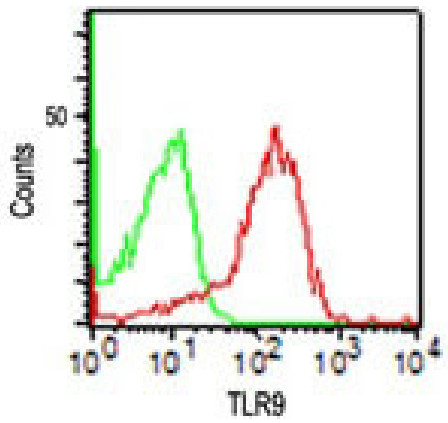
Shipping Condition:	Dry Ice

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.

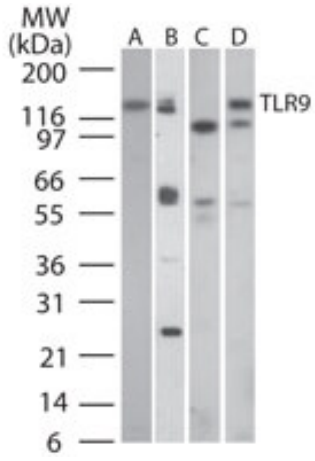
Images



Immunohistochemistry
Immunohistochemistry of mouse Anti-TLR9 CD288 antibody. Tissue A: Adenocarcinoma of the lung. Tissue C: A549 cells. Tissue F: malignant lung. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: TLR9 antibody at 1:100 for 1 h at RT. Secondary antibody: Peroxidase mouse secondary antibody at 1:10,000 for 45 min at RT. Localization: TLR9 is an endoplasmic reticulum membrane antibody and is a single-pass type 1 membrane protein.



Flow Cytometry
Flow Cytometry of Mouse Anti-TLR9 antibody. Cells: human PBMC Stimulation: none. Primary Antibody: Anti-TLR9 antibody at 0.5 ug (red) and isotype control (green). Secondary Antibody:



Western Blot
Western Blot of Mouse Anti-TLR9 CD288 antibody. Lane A: human PBMCs. Lane B: human intestine. Lane C: mouse intestine. Lane D: rat intestine tissue lysates. Primary antibody: TLR9 CD288 at 3 µg/mL overnight at 4°C. Secondary antibody: Goat anti-mouse HRP conjugate antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 80 kDa for TLR9. Other band(s): none.

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.