Datasheet for ABIN6656659

anti-TLR9 antibody

3 Images

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Overview

Quantity:	100 µg
Target:	TLR9
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This TLR9 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Flow Cytometry (FACS), Immunoprecipitation (IP), Immunofluorescence (IF), Dot Blot (DB)

Product Details

Purpose:	TLR9 Antibody
Immunogen:	TLR9 Antibody was produced in mice prepared repeated immunizations with amino acids corresponding to an internal sequence of human TLR9 isoform A protein.
Clone:	26C593-2
Isotype:	IgG1 kappa
Cross-Reactivity (Details):	A BLAST analysis was used to suggest cross-reactivity with Anti-TLR9 from monkey based on 100 % homology with the immunizing sequence.
Purification:	Anti-TLR9 Antibody was purified by Protein G chromatography.

Target Details

Target:	TLR9

Target Details

Alternative Name:	TLR9 (TLR9 Products)
Background:	Synonyms: Toll-like receptor 9 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. Gene Name: TLR9
Gene ID:	54106
NCBI Accession:	NP_059138
UniProt:	Q9NR96
Pathways:	TLR Signaling, Activation of Innate immune Response, Cellular Response to Molecule of Bacterial Origin, Toll-Like Receptors Cascades

Application Details

Application Notes:	Immunohistochemistry_Dilution: 10-20 µg/mL (frozen) Flow_Cytometry_Dilution: 0.1-2 µg/10^6 cells Western_Blot_Dilution: 1-5 µg/mL
Comment:	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.
Restrictions:	For Research Use only

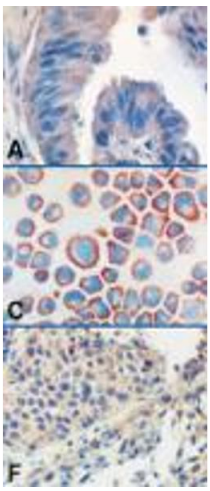
Handling

Format:	Liquid
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Handling

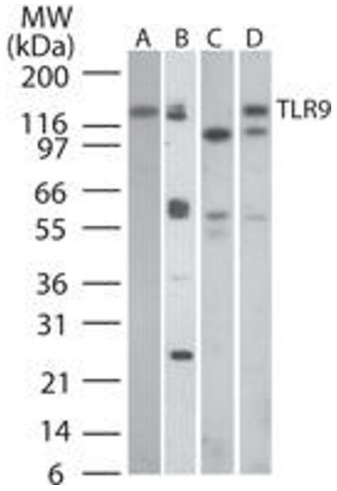
	Stabilizer: 0.05 % BSA Preservative: 0.05 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. 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.
Expiry Date:	12 months

Images



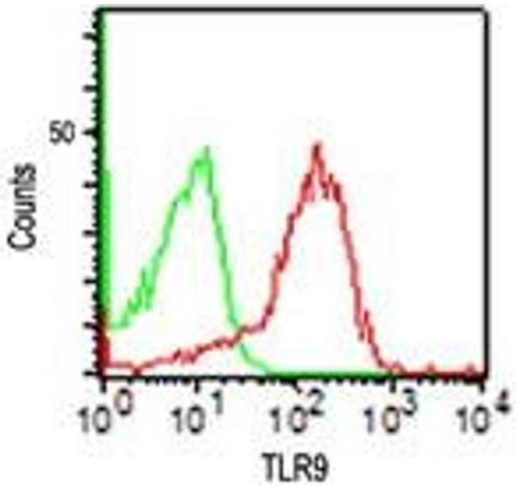
Immunohistochemistry

Image 1. TLR9 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. Staining:



Western Blotting

Image 2. TLR9 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.



Flow Cytometry

Image 3. TLR9 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: