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Datasheet for 200-301-I31

# TLR9 Antibody

## Overview

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| **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

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| **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

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| **Gene Name:** | TLR9 |
| **Reactivity:** | Human, Mouse, Rat |

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| **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<br>• NCBI - NP_059138.1<br>• GeneID - 54106 |

## Application Details

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| **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

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| **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

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| **Shipping Condition:** | Dry Ice |

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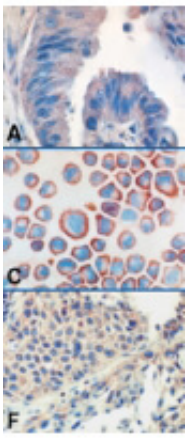
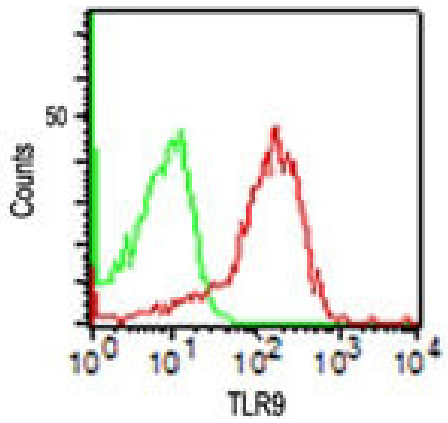
| **Storage Condition:** | Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. |
| **Expiration:** | Expiration date is one (1) year from date of receipt. |

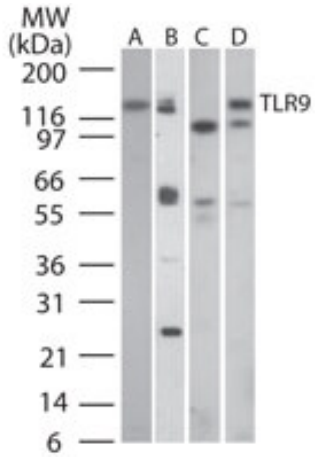
## Images




**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