

Datasheet for ABIN6656855
anti-TLR4 antibody

3 Images



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Overview

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|--------------|---|
| Quantity: | 100 µg |
| Target: | TLR4 |
| Reactivity: | Human |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This TLR4 antibody is un-conjugated |
| Application: | Western Blotting (WB), Flow Cytometry (FACS), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF), Fluorescence Microscopy (FM), Dot Blot (DB), Chromatin Immunoprecipitation (ChIP) |

Product Details

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| Purpose: | TLR4 Antibody |
| Immunogen: | TLR4 Antibody was produced in mice prepared by repeated immunizations with amino acids corresponding to an internal sequence in human TLR4. |
| Clone: | 76B357-1 |
| Isotype: | IgG2b kappa |
| Cross-Reactivity (Details): | A BLAST analysis was used to suggest cross-reactivity with Anti-TLR4 from human and mouse based on 100 % homology with the immunizing sequence. |
| Purification: | Anti-TLR4 Antibody was purified by Protein G chromatography. |

Target Details

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| Target: | TLR4 |
| Alternative Name: | TLR4 (TLR4 Products) |
| Background: | <p>Synonyms: hToll, Toll-like receptor 4, CD284</p> <p>Background: Anti-TLR4 CD284 antibody detects human TLR4 CD284. 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. Among this family of receptors, TLR2 and TLR4 have been most studied. These studies have suggested that TLR2 and TLR4 may serve as potential main mediators of LPS signaling. The TLR4 cDNA codes for a protein consisting of 799 amino acids with approximate molecular weight of 88 kDa. Anti-TLR4 CD284 antibody is ideal for investigators involved in cytokines and growth factor research.</p> <p>Gene Name: TLR4</p> |
| Gene ID: | 7099 |
| NCBI Accession: | NP_003257 |
| UniProt: | O00206 |
| Pathways: | TLR Signaling , Activation of Innate immune Response , Cellular Response to Molecule of Bacterial Origin , Positive Regulation of Immune Effector Process , Production of Molecular Mediator of Immune Response , Toll-Like Receptors Cascades , Inflammasome , S100 Proteins |

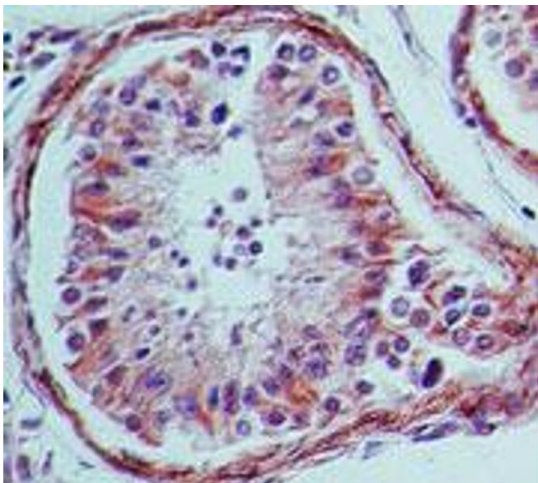
Application Details

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| Application Notes: | <p>Immunohistochemistry_Dilution: 5 µg/mL</p> <p>Flow_Cytometry_Dilution: 0.5-2.0 µg/10⁶ cells</p> <p>IF_Microscopy_Dilution: 1:10-1:2000</p> <p>Western_Blots_Dilution: 1-3 µg/mL</p> |
| Comment: | <p>Anti-TLR4 Antibody has been tested in WB, CHIP, DB, ELISA, Flow, Flow-CS, Flow-IC, ICC/IF, IHC, IHC-Fr, IHC-P, In vitro, CyTOF-ready, Dual ISH-IHC, ELISA(Capture), and Knockdown/Knockout.</p> <p>Expect a band approximately 95kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.</p> |
| Restrictions: | For Research Use only |

Handling

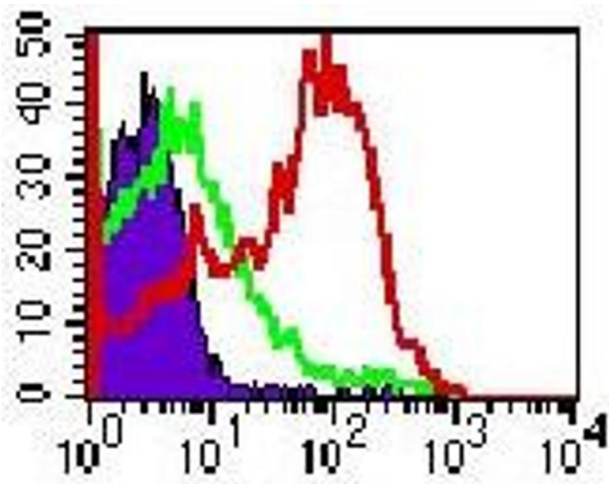
| | |
|--------------------|---|
| Format: | Liquid |
| Buffer: | Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: 0.05 % BSA Preservative: 0.05 % (w/v) Sodium Azide |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS 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



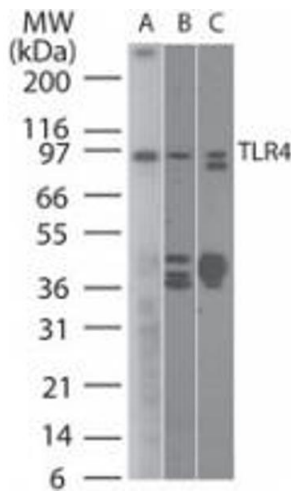
Immunohistochemistry

Image 1. Immunohistochemistry of mouse Anti-TLR4 antibody. Tissue: human testis. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: TLR4 antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase mouse secondary antibody at 1:10,000 for 45 min at RT. Localization: TLR4 is a single-pass type 1 membrane protein. Staining: TLR4 is stained purple.



Flow Cytometry

Image 2. TLR4 Flow Cytometry Flow Cytometry of Mouse Anti-TLR4 CD284 antibody. Cells: Mouse splenocytes. Stimulation: none. Primary Antibody: Anti-TLR3 antibody at 0.5 $\mu\text{g}/10^6$ cells of antibody (red) and the isotype control (green). Secondary Antibody: Goat anti-mouse IgG1 PE conjugate (BD).



Western Blotting

Image 3. TLR4 Western Blot. Western Blot of Mouse Anti-TLR4 CD284 antibody. Lane A: human intestine. Lane B: mouse intestine. Lane C: rat intestine lysate. Primary antibody: TLR4 antibody at 2 $\mu\text{g}/\text{mL}$ for tissue Lane A and at 6 $\mu\text{g}/\text{mL}$ for Lanes B and C overnight at 4°C. Secondary antibody: mouse secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 80 kDa for TLR4 CD284. Other band(s): none.