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Datasheet for 200-301-I25

TLR4 Antibody

Overview

Description:	Anti-TLR4 (MOUSE) Monoclonal Antibody - 200-301-I25
Item No.:	200-301-I25
Size:	100 µg
Applications:	ChIP, Dot Blot, ELISA, FC, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Mouse

Product Details

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.
Synonyms:	hToll, Toll-like receptor 4, CD284
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	76B357.1
Format:	IgG2b

Target Details

Gene Name:	TLR4
Reactivity:	Human, Mouse, Rat

Immunogen Type:	Conjugated Peptide
Immunogen:	TLR4 Antibody was produced in mice prepared by repeated immunizations with amino acids corresponding to an internal sequence in human TLR4.
Purity/Specificity:	Anti-TLR4 Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with Anti-TLR4 from human and mouse based on 100% homology with the immunizing sequence. Cross-reactivity with Anti-TLR4 from other sources has not been determined.
Relevant Links:	• UniProtKB - O00206 • NCBI - NP_003257.1 • GeneID - 7099

Application Details

Tested Applications:	ChIP, Dot Blot, ELISA, FC, IF, IHC, WB
Application Note:	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. Expect a band approximately 95kDa 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.
ChIP:	1:10-1:500
ELISA:	0.5 ug
FC:	0.5-2.0 µg/10^6 cells
IF:	1:10-1:500
IHC:	5 µg/mL
WB:	1-3 µg/mL

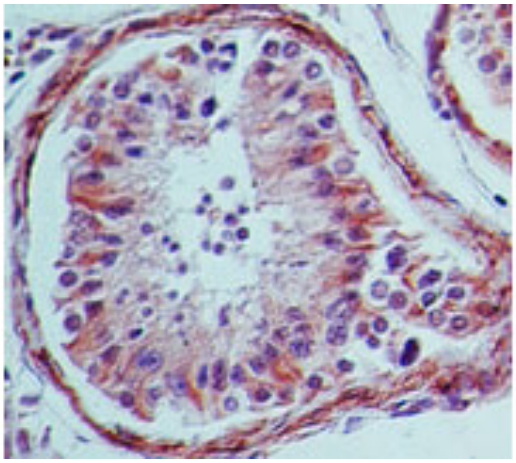
Formulation

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

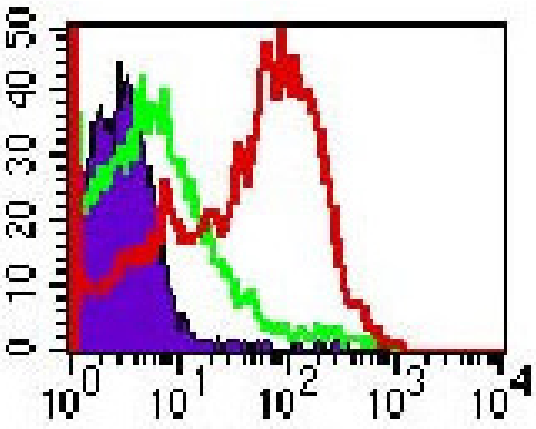
Shipping & Handling

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.

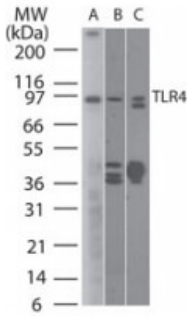
Images



Immunohistochemistry
Immunohistochemistry of mouse Anti-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
Flow Cytometry of Mouse Anti-TLR4 CD284 antibody. Cells: Mouse splenocytes. Stimulation: none. Primary Antibody: Anti-TLR3 antibody at 0.5 ug/10^6 cells of antibody (red) and the isotype control (green). Secondary Antibody: Goat anti-mouse IgG1 PE conjugate (BD).



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 µg/mL for tissue Lane A and at 6 µg/mL for Lanes B and C overnight at 4°C. Secondary antibody: IRDye800™ 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.

Disclaimer

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