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Datasheet for 200-301-I29

TLR7 Antibody

Overview

Description:	Anti-TLR7 (MOUSE) Monoclonal Antibody - 200-301-I29
Item No.:	200-301-I29
Size:	100 µg
Applications:	FC, IF, IHC, WB
Reactivity:	Human
Host Species:	Mouse

Product Details

Background:	Anti-TLR7 Antibody detects human TLR7. TLR7 is a 1049 amino acid long highly conserved membrane protein belonging to the Toll-like receptor (TLR) family with 27 LRR (leucine-rich) repeats and a TIR domain. It plays a fundamental role in pathogen recognition and activation of innate immunity. TLR7 is activated by infections with single-stranded RNA viruses, including influenza virus and vesicular stomatitis virus (VSV). It is predominantly expressed in lung, placenta, and spleen, and lies in close proximity to another family member, TLR8. It acts via MyD88 and TRAF6, leading to NF-kappaB activation, cytokine secretion and the inflammatory response. They recognize pathogen-associated molecular patterns (PAMPs) that are expressed on infectious agents, and mediate the production of cytokines necessary for the development of effective immunity. Anti-TLR7 Antibody is ideal for investigators that are involved in cytokin and grow factor research.
Synonyms:	Toll-like receptor 7
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	IMG4G6
Format:	IgG1

Target Details

Gene Name:	TLR7
Reactivity:	Human

Immunogen Type:	Recombinant Protein
Immunogen:	TLR7 Antibody was produced in mice prepared by repeated immunizations with an internal portion of human TLR7 recombinant protein.
Purity/Specificity:	Anti-TLR7 Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with Anti-TLR7 from human based on 100% homology with the immunizing sequence. Cross-reactivity with Anti-TLR7 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9NYK1 • NCBI - NP_057646.1 • GeneID - 51284

Application Details

Tested Applications:	FC, IF, IHC, WB
Application Note:	Anti-TLR7 Antibody is tested for use in WB, Flow, Flow-IC, ICC/IF, and IHC-P. Expect a band approximately 121kDa 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:	1-2 µg/10^6 cells
WB:	10 µg/mL

Formulation

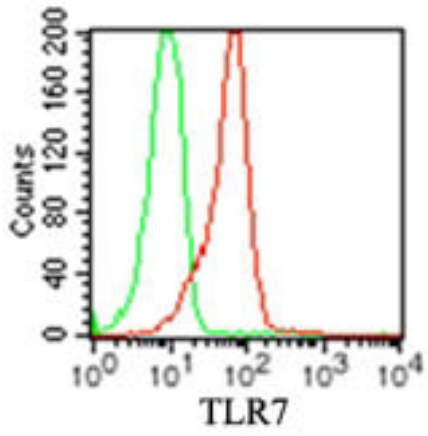
Physical State:	Liquid
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.05% (w/v) Sodium Azide
Stabilizer:	0.05% BSA

Shipping & Handling

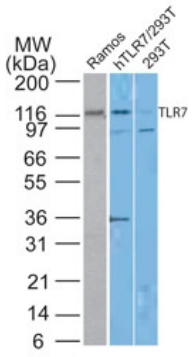
Shipping Condition:	Dry Ice

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.

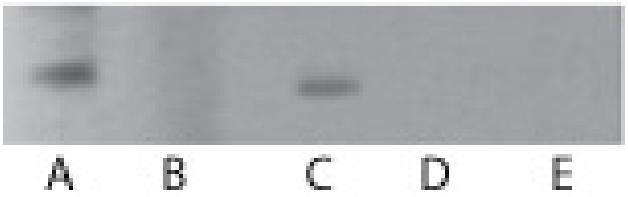
Images



Flow Cytometry
Flow Cytometry of Mouse Anti-TLR7 antibody. Cells: human monocytes. Stimulation: none. Primary Antibody: TLR7 monoclonal antibody at 2 ug (red) and 2 ug mouse IgG1 isotype control (green).
Secondary Antibody: Anti-mouse IgG PE.



Western Blot
Western Blot of Mouse Anti-TLR7 antibody. Lane A: recombinant partial hTLR7 protein. Primary antibody: TLR7 at 2 µg/mL 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 TLR7. Other band(s): none.



Western Blot

Western Blot of Mouse Anti-TLR7 antibody. Lane A: Ramos untransfected. Lane B: human TLR7 in Ramos. Lane C: transfected 293T lysate. Primary antibody: TLR7 at 10 µg/mL 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 TLR7. Other band(s): none.

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