

Datasheet for ABIN6655379

anti-TLR7 antibody**3** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	TLR7
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This TLR7 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Flow Cytometry (FACS), Immunofluorescence (IF)

Product Details

Purpose:	TLR7 Antibody
Immunogen:	TLR7 Antibody was produced in mice prepared by repeated immunizations with an internal portion of human TLR7 recombinant protein.
Clone:	IMG4G6
Isotype:	IgG1 kappa
Cross-Reactivity (Details):	A BLAST analysis was used to suggest cross-reactivity with Anti-TLR7 from human based on 100 % homology with the immunizing sequence.
Purification:	Anti-TLR7 Antibody was purified by Protein G chromatography.

Target Details

Target:	TLR7
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Target Details

Alternative Name: [TLR7 \(TLR7 Products\)](#)

Background: Synonyms: Toll-like receptor 7

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.

Gene Name: TLR7

Gene ID: 51284

NCBI Accession: [NP_057646](#)

UniProt: [Q9NYK1](#)

Pathways: [TLR Signaling, Activation of Innate immune Response, Toll-Like Receptors Cascades](#)

Application Details

Application Notes: Flow_Cytometry_Dilution: 1-2 µg/10⁶ cells
Western_Blot_Dilution: 10 µg/mL

Comment: Anti-TLR7 Antibody is tested for use in WB, Flow, Flow-IC, ICC/IF, and IHC. Expect a band approximately 121kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.

Restrictions: For Research Use only

Handling

Format: Liquid

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

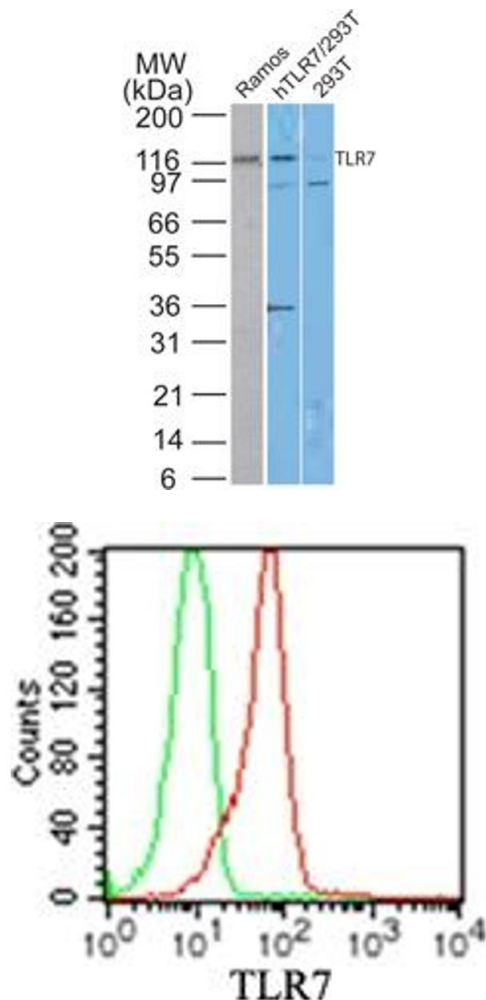
Stabilizer: 0.05 % BSA

Preservative: 0.05 % (w/v) Sodium Azide

Handling

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

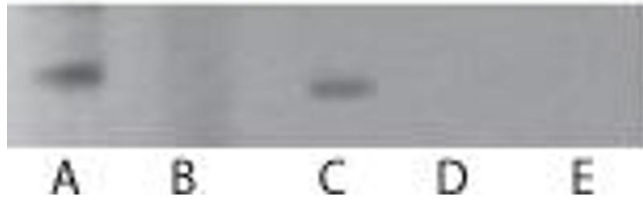


Western Blotting

Image 1. TLR7 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: 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.

Flow Cytometry

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



Western Blotting

Image 3. TLR7 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: 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.