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Datasheet for 600-401-FG6

TLR9 Antibody

Overview

Description:	Anti-TLR9 (RABBIT) Antibody - 600-401-FG6
Item No.:	600-401-FG6
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	Toll-like receptors (TLRs) are evolutionarily conserved pattern-recognition molecules resembling the toll proteins that mediate antimicrobial responses in Drosophila. These proteins recognize different microbial products during infection and serve as an important link between the innate and adaptive immune responses. TLR9 forms a subfamily along with TLR7 and TLR8 that recognize viral RNA and CpG DNA sequences and are localized in intracellular acidic compartments such as the phagolysosome. Unlike other TLRs which act through adaptor molecules such as TOLLIP, TIRAP, TRIF, and MyD88 to activate various kinases and transcription factors to respond to potential infection, TLR9 is strictly dependent on MyD88.
Synonyms:	TLR9 Antibody, CD289, Toll-like receptor 9
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	TLR9
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-TLR9 antibody was prepared from whole rabbit serum produced by repeated immunizations with a peptide corresponding to 16 amino acids near the C-terminus of human TLR9.

Purity/Specificity:	Anti-TLR9 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with TLR9 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9NR96 • GeneID - 54106 • NCBI - NP_059138.1

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-TLR9 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 116 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	0.5-2 µg/mL
IF:	10 µg/mL
IHC:	2 µg/mL
WB:	0.5-2 µg/mL

Formulation

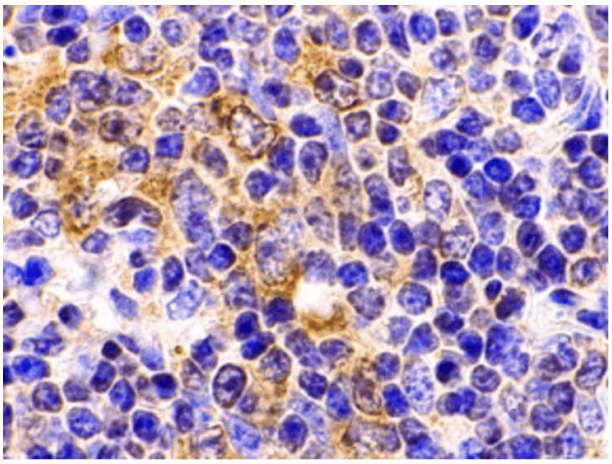
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

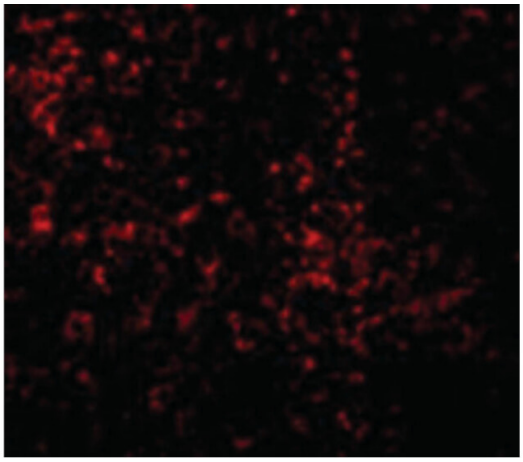
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several 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.

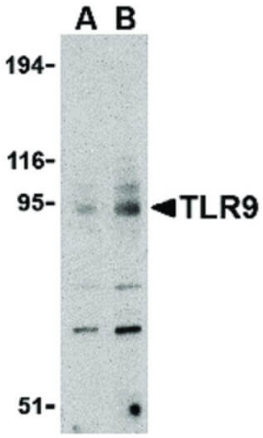
Images



Immunohistochemistry
Immunohistochemistry of TLR9 antibody. Cell Type: Mouse Spleen cells. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: TLR9 antibody at 2 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: TLR9 is located in the cell membrane. Staining: TLR9 is stained with toluidine blue.



Immunofluorescence Microscopy
Immunofluorescence Microscopy of TLR9 antibody. Cell Type: Mouse Spleen cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: TLR9 antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: TLR9 is located in the cell membrane. Staining: TLR9 as red fluorescent signal.



Western Blot

Western Blot of TLR9 antibody in mouse spleen cell lysate. Lane A: TLR9 antibody at 0.5 µg/mL. Lane B: TLR9 antibody at 1 µg/mL. Lane C: TLR9 antibody at 2 µg/mL. Load: 35 µg per lane. Primary antibody: TLR9 antibody at designated concentrations for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C.
Predicted/Observed size: 96 kDa, 94 kDa for TLR9. Other band(s): TLR9 splice variants and isoforms.

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