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Datasheet for 200-301-I30

TLR8 Antibody

Overview

Description:	Anti-TLR8 (MOUSE) Monoclonal Antibody - 200-301-I30
Item No.:	200-301-I30
Size:	100 µg
Applications:	Dot Blot, FC, IF, IHC, WB
Reactivity:	Human
Host Species:	Mouse

Product Details

Background:	Anti-TLR8 CD288 Antibody detects human TLR8. 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. TLR8 gene contains three exons, two of which have coding function. TLR8 cDNA codes for a protein of approximate molecular weight of 120 kDa. Anti-TLR8 CD288 Antibody is ideal for investigators involved in cytokines and growth factor research.
Synonyms:	Toll-like receptor 8
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	44C143
Format:	IgG1

Target Details

Gene Name:	TLR8
Reactivity:	Human
Immunogen Type:	Conjugated Peptide

Immunogen:	TLR8 Antibody was produced in mice prepared by repeated immunizations with amino acids corresponding to an internal sequence of human TLR8 protein.
Purity/Specificity:	Anti-TLR8 Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with Anti-TLR8 from human and mouse based on 100% homology with the immunizing sequence. Cross-reactivity with Anti-TLR8 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9NR97 • NCBI - NP_619542.1 • GeneID - 51311

Application Details

Tested Applications:	Dot Blot, FC, IF, IHC, WB
Application Note:	Anti-TLR8 Antibody is tested for use in WB, DB, Flow, Flow-CS, Flow-IC, ICC/IF, IHC, 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:	0.5-1 µg/10^6 cells
IHC:	5 µg/mL
WB:	1-3 µg/mL

Formulation

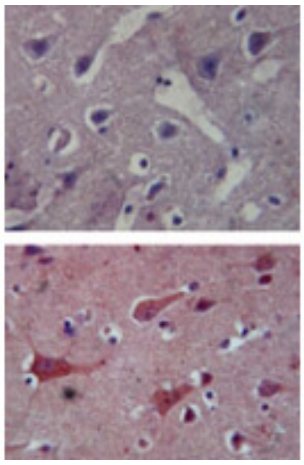
Physical State:	Liquid
Concentration:	0.5 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.05% (w/v) Sodium Azide

Shipping & Handling

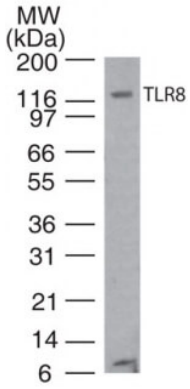
Shipping Condition:	Dry Ice

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-TLR8 CD288 antibody. Tissue: human brain tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: TLR8 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: TLR8 is a single-pass type 1 membrane protein. Staining: Top tissue is an isotype control and bottom image TLR8 is a precipitated red signal with hematoxylin purple nuclear counterstain.



Western Blot
Western Blot of Mouse Anti-TLR8 CD288 antibody. Lane A: human Ramos cell lysate. Primary antibody: TLR8 CD288 at 3 µg/mL overnight at 4°C. Secondary antibody: Goat anti-mouse Ig HRP antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 80 kDa for TLR8. Other band(s): none.

Disclaimer

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