

For Research Use Only

TLR4 Polyclonal antibody

Catalog Number: 30400-1-AP

5 Publications



Basic Information

Catalog Number:

30400-1-AP

Size:

150ul, Concentration: 550 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG32998

GenBank Accession Number:

NM_021297

GeneID (NCBI):

21898

UNIPROT ID:

Q9QUK6

Full Name:

toll-like receptor 4

Calculated MW:

96 kDa

Observed MW:

95-100 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:8000

Applications

Tested Applications:

WB, ELISA

Cited Applications:

WB, IF

Species Specificity:

human, mouse, rat

Cited Species:

mouse, rat

Positive Controls:

WB: J774A.1 cells, THP-1 cells, RAW 264.7 cells, mouse liver tissue, mouse spleen tissue, rat liver tissue, rat spleen tissue

Background Information

TLR4, also known as CD284, belongs to the Toll-like receptor family. It is a type I transmembrane protein consisting of an extracellular leucine-rich repeat region, a helix transmembrane domain, and an intracellular Toll-IL-1 receptor domain. TLR4 functions as a pattern recognition receptor recognizing pathogen- and damage-associated molecular patterns (PAMPs and DAMPs) to induce innate immune responses via downstream signaling pathways. It interacts with LY96 and CD14 to mediate the innate immune response to bacterial lipopolysaccharide (LPS). TLR4 acts via MYD88, TIRAP, and TRAF6, leading to NF- κ B activation, cytokine secretion, and the inflammatory response.

Notable Publications

Author	Pubmed ID	Journal	Application
Junya Zeng	39549881	Free Radic Biol Med	WB, IF
Beibei Xu	39507306	Brain Behav Immun Health	WB
Fangzhen Tian	39359176	ACS Appl Mater Interfaces	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

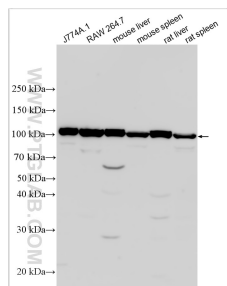
For technical support and original validation data for this product please contact:

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E: proteintech@ptglab.com
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 30400-1-AP (TLR4 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.