

For Research Use Only

TLR4 Polyclonal antibody

Catalog Number: 30400-1-AP



Basic Information

Catalog Number: 30400-1-AP	GenBank Accession Number: NM_021297	Purification Method: Antigen affinity purification
Size: 550 µg/ml	GeneID (NCBI): 21898	Recommended Dilutions: WB 1:1000-1:4000
Source: Rabbit	UNIPROT ID: Q9QUK6	
Isotype: IgG	Full Name: toll-like receptor 4	
Immunogen Catalog Number: AG32998	Calculated MW: 96 kDa	
	Observed MW: 96 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : J774A.1 cells, THP-1 cells, RAW 264.7 cells, mouse liver tissue, mouse spleen tissue
Species Specificity: Mouse, Human	

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-κB activation, cytokine secretion, and the inflammatory response.

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

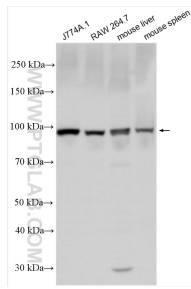
T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.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 1:2000 incubated at room temperature for 1.5 hours.