

For Research Use Only

# TLR4 Polyclonal antibody

Catalog Number: 19811-1-AP

Featured Product

441 Publications



## Basic Information

<b>Catalog Number:</b> 19811-1-AP	<b>GenBank Accession Number:</b> BC117422	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 600 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 7099	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:100-1:400
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O00206	
<b>Isotype:</b> IgG	<b>Full Name:</b> toll-like receptor 4	
<b>Immunogen Catalog Number:</b> AG13841	<b>Calculated MW:</b> 839 aa, 96 kDa	
	<b>Observed MW:</b> 90-110 kDa	

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB, IP, IF, IHC, CoIP, ChIP, ELISA, Cell treatment, Microtiter plate binding assay

### Species Specificity:

human, mouse, rat

### Cited Species:

human, rat, mouse, rabbit, hamster, pig, canine, bovine

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB : mouse liver tissue,

IHC : human placenta tissue, mouse brain tissue, human liver cancer tissue, human colon tissue

## Background Information

TLR4, also named CD284, belongs to the Toll-like receptor family. TLR4 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. Three alternatively spliced transcript variants that encode different protein isoforms have been described. The calculated molecular weights of the three TLR4 isoforms are 96, 91, and 73 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Chang Liu	36230117	Foods	WB
Ying Tu	36155221	Environ Pollut	WB
Haihua Zhang	33182056	Int Immunopharmacol	WB

## 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

\*\*\* 20ul sizes contain 0.1% BSA

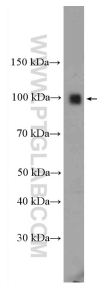
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

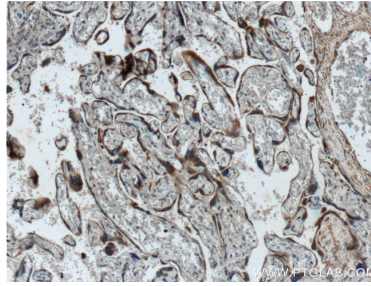
E: proteintech@ptglab.com  
W: ptglab.com

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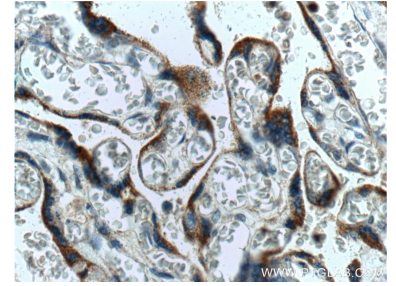
## Selected Validation Data



mouse liver tissue were subjected to SDS PAGE followed by western blot with 19811-1-AP (TLR4 Antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 19811-1-AP (TLR4 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 19811-1-AP (TLR4 Antibody) at dilution of 1:200 (under 40x lens).