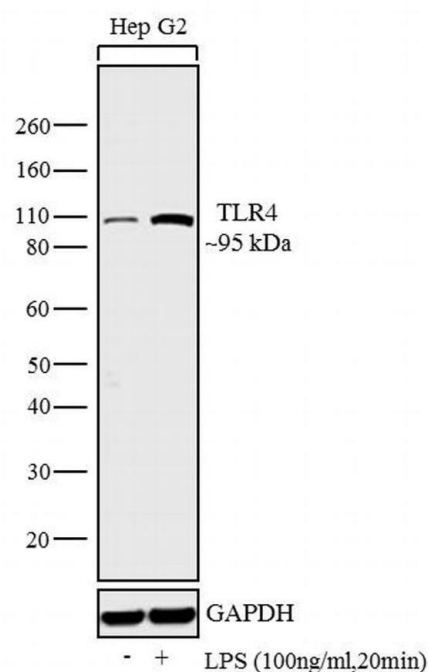


TLR4 Polyclonal Antibody

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Rat, Mouse, Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic peptide derived from the C-terminal region of the mouse TLR4 protein (Accession# NP_067272, Q9QUK6), which is identical to rat and 94% homologous to human.
Form	Liquid
Concentration	0.25 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7.4
Contains	0.1% sodium azide
Storage conditions	-20°C
RRID	AB_2533842

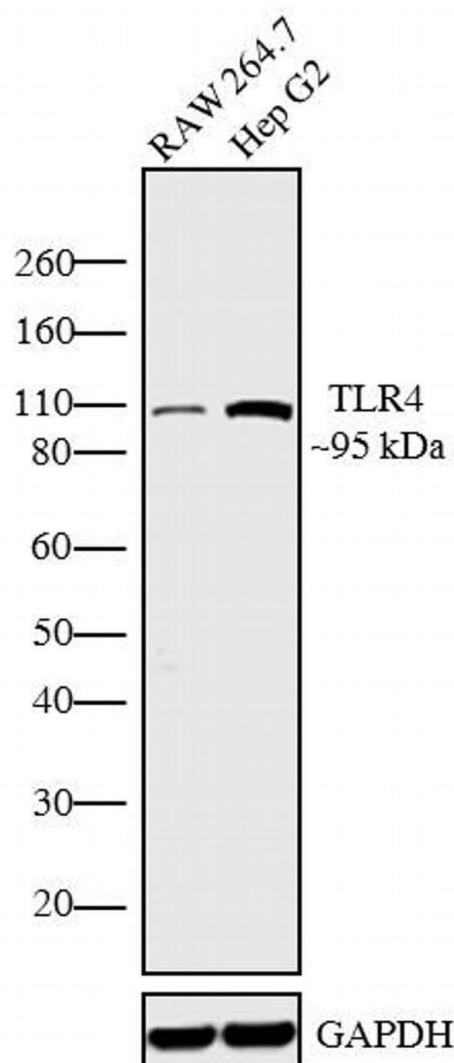
Applications	Tested Dilution	Publications
Western Blot (WB)	1:50-1:200	23 Publications
Immunohistochemistry (IHC)	-	6 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	1 Publication
Flow Cytometry (Flow)	20 µg x 10^6 cells	2 Publications
Immunoprecipitation (IP)	Assay-dependent	1 Publication
Gel Shift (GS)	-	1 Publication

Product Images For TLR4 Polyclonal Antibody



TLR4 Antibody (48-2300)

Altered expression of protein upon cell treatment demonstrates antibody specificity. Western blot of TLR4 using Anti-TLR4 Rabbit Polyclonal Antibody (Product# 48-2300) shows increased expression of TLR4 in HepG2 upon LPS treatment. {TM}

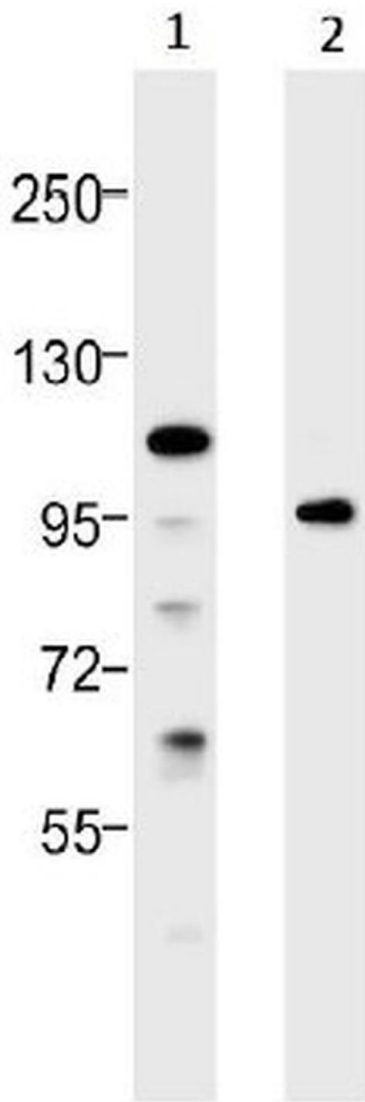


TLR4 Antibody (48-2300) in WB

Western blot analysis was performed on membrane enriched extracts (30 µg lysate) of RAW 264.7 (Lane 1) and Hep G2 (Lane 2). The blot was probed with Anti-TLR4 Rabbit Polyclonal Antibody (Product # 48-2300, 2 µg/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.25 µg/mL, 1:4000 dilution). A 95 kDa band corresponding to TLR4 was observed across the cell lines tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0322BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5% skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).

TLR4 Antibody (48-2300) in WB

Western blot analysis of TLR4 in HL-60 whole cell lysate (Lane 1) and THP-1 cell lysates (Lane 2). Samples were loaded at 20µg per lane onto a 15% SDS-polyacrylamide gel, transferred to a PVDF membrane (semi-dry) and blocked with TBS containing TBST and 5% non-fat dry milk for 2 hrs at room temperature. The membrane was washed in TBST and probed with an anti-TLR4 polyclonal antibody (Product # 48-2300) at a dilution of 1:100 overnight at 4°C and washed in TBST. Secondary detection was performed using a Goat anti-Rabbit IgG (H+L) Cross Adsorbed Secondary Antibody, HRP conjugate (Product # 31462) at a dilution of 1:5000, followed by ECL detection. Data provided courtesy of Antibody Resource.



[View more figures on thermofisher.cn](https://www.thermofisher.cn)

Western Blot (23)

Histology and histopathology <i>Bifidobacterium</i> mitigates autoimmune hepatitis by regulating IL-33-induced Treg/Th17 imbalance via the TLR2/4 signaling pathway. "48-2300 was used in Western Blot to reveal that LCBLECs exerted therapeutic effects on EAH mice by improving Treg/Th17 imbalance in an IL-33-dependent manner via the TLR2/4 signaling pathway and relieved the clinical symptoms of AIH patients, indicating Bifidobacterium supplementation with LCBLECs might be a potential adjuvant therapy for AIH treatment." Authors: Song J,Dai J,Chen X,Ding F,Ding Y,Ma L,Zhang L	Year 2024 Species Mouse
Cells Cholesteryl Hemiazelate Present in Cardiovascular Disease Patients Causes Lysosome Dysfunction in Murine Fibroblasts. "Published figure using TLR4 polyclonal antibody (Product # 48-2300) in Western Blot" Authors: Lopes E,Machado-Oliveira G,Simões CG,Ferreira IS,Ramos C,Ramalho J,Soares MIL,Melo TMVDPE, Puertollano R,Marques ARA,Vieira OV	Year 2023

[View more WB references on thermofisher.cn](#)

Immunohistochemistry (6)

Life (Basel, Switzerland) Ameliorative Effect of D-Carvone against Hepatic Ischemia-Reperfusion-Induced Injury in Rats. "Published figure using TLR4 polyclonal antibody (Product # 48-2300) in Immunohistochemistry" Authors: Mohamed ME,Younis NS	Year 2022 Species Mouse Dilution 1:1000
Science translational medicine Hepatocyte TLR4 triggers inter-hepatocyte Jagged1/Notch signaling to determine NASH-induced fibrosis. "48-2300 was used in Immunohistochemistry to identify if increased expression of the Notch ligand Jagged1 (JAG1) tracked with Notch activation and nonalcoholic fatty liver disease (NAFLD) activity score (NAS) in human liver biopsy specimens and mouse NASH models." Authors: Yu J,Zhu C,Wang X,Kim K,Bartolome A,Dongiovanni P,Yates KP,Valenti L,Carrer M,Sadowski T,Qiang L, Tabas I,Lavine JE,Pajvani UB	Year 2021 Species Mouse Dilution 1:500

[View more IHC references on thermofisher.cn](#)

More applications with references on thermofisher.cn

- IHC (P) (1)
- IHC (PFA) (1)
- Flow (2)
- IP (1)
- GS (1)

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