

Datasheet for ABIN361724
anti-TLR4 antibody (AA 420-435)

6 Images

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Overview

Quantity:	100 µg
Target:	TLR4
Binding Specificity:	AA 420-435
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	Developed against a synthetic peptide corresponding to amino acids 420-435 of human TLR4
Specificity:	Detects ~75-80 kDa when tested against partial recombinant mouse TLR4 (extra-cellular portion plus His-tag).
Cross-Reactivity:	Human, Mouse
Purification:	Protein A Purified

Target Details

Target:	TLR4
Alternative Name:	TLR4 (TLR4 Products)
Background:	The Toll-like receptor (TLR) family in mammal comprises a family of trans-membrane proteins characterized by multiple copies of leucine rich repeats in the extracellular domain and 1L-1

Target Details

receptor motif in the cytoplasmic domain. Like its counterparts in *Drosophila*, TLRs signal through adaptor molecules (1). The TLR family is a phylo-genetically conserved mediator of innate immunity that is essential for microbial recognition (2). Ten human homologs of TLRs (TLR1-10) have been described (3). Among this family of receptors, TLR2 and TLR4 have been most studied. These studies have suggested that TLR2 and TLR4 may serve as potential main mediators of LPS signaling (4,5). The mouse TLR4 cDNA codes for a protein consisting of 839 amino acids, with an approximate molecular weight of 90 kDa (6).

Gene ID: 7099

NCBI Accession: [NP_612564](#)

UniProt: [O00206](#)

Pathways: [TLR Signaling](#), [Activation of Innate immune Response](#), [Cellular Response to Molecule of Bacterial Origin](#), [Positive Regulation of Immune Effector Process](#), [Production of Molecular Mediator of Immune Response](#), [Toll-Like Receptors Cascades](#), [Inflammasome](#), [S100 Proteins](#)

Application Details

Application Notes:

- WB (1:500)
- IHC (1:50)
- optimal dilutions for assays should be determined by the user.

Comment: 2 µg/ml of ABIN361724 was sufficient for detection of TLR4 in 100 ng of partial recombinant mouse TLR4 protein by colorimetric immunoblot analysis using Goat anti-rabbit IgG:HRP as the secondary antibody.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

Buffer: PBS, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

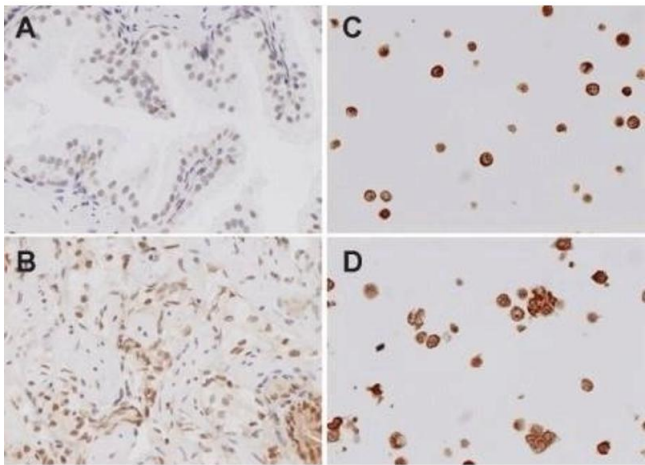
Handling

Storage Comment: -20°C

Publications

Product cited in: Jiao, Wei, Chen, Li, Wang, Li, Guo, Zhang, Wei: "Cartilage oligomeric matrix protein and hyaluronic acid are sensitive serum biomarkers for early cartilage lesions in the knee joint." in: **Biomarkers : biochemical indicators of exposure, response, and susceptibility to chemicals**, Vol. 21, Issue 2, pp. 146-51, (2016) ([PubMed](#)).

Images



Immunohistochemistry

Image 1. Immunohistochemistry analysis using Rabbit Anti-TLR4 Polyclonal Antibody (ABIN361724). Tissue: spleen tissue. Species: Mouse. Primary Antibody: Rabbit Anti-TLR4 Polyclonal Antibody (ABIN361724) at 1:100.

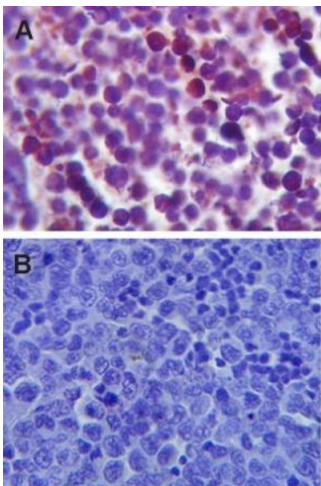
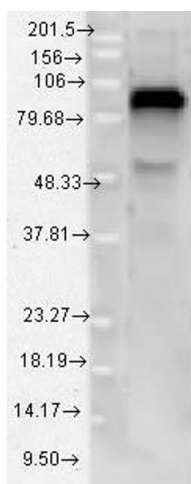


Image 2.



Western Blotting

Image 3. TLR4 MD 2 recomb, 95kD.

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN361724.