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Datasheet for ABIN718691

## anti-TLR7 antibody (AA 461-560)

4 Images

1 Publication

### Overview

Quantity:	100 µL
Target:	TLR7
Binding Specificity:	AA 461-560
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TLR7 antibody is un-conjugated
Application:	Western Blotting (WB)

### Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human TLR7
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Purification:	Purified by Protein A.

### Target Details

Target:	TLR7
Alternative Name:	TLR7 ( <a href="#">TLR7 Products</a> )
Background:	Synonyms: TLR7-like, Toll-like receptor 7, TLR7, UNQ248/PRO285 Background: Key component of innate and adaptive immunity. TLRs (Toll-like receptors) control

## Target Details

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host immune response against pathogens through recognition of molecular patterns specific to microorganisms. TLR7 is a nucleotide-sensing TLR which is activated by single-stranded RNA. Acts via MYD88 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response (By similarity).

Gene ID: 51284

UniProt: [Q9NYK1](#)

Pathways: [TLR Signaling](#), [Activation of Innate immune Response](#), [Toll-Like Receptors Cascades](#)

## Application Details

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Application Notes:

- WB 1:300-5000
- ELISA 1:500-1000
- FCM 1:20-100
- IHC-P 1:200-400
- IHC-F 1:100-500
- IF(IHC-P) 1:50-200
- IF(IHC-F) 1:50-200
- IF(ICC) 1:50-200
- ICC 1:100-500

Restrictions: For Research Use only

## Handling

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Format: Liquid

Concentration: 1 µg/µL

Buffer: 0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

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

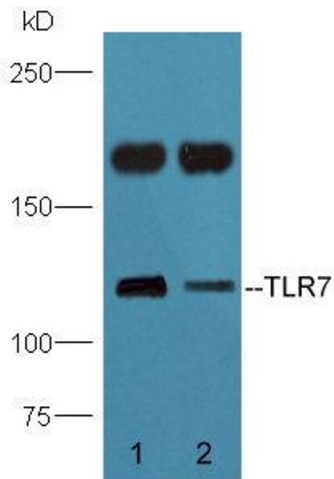
Storage: 4 °C,-20 °C

Storage Comment: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Expiry Date: 12 months

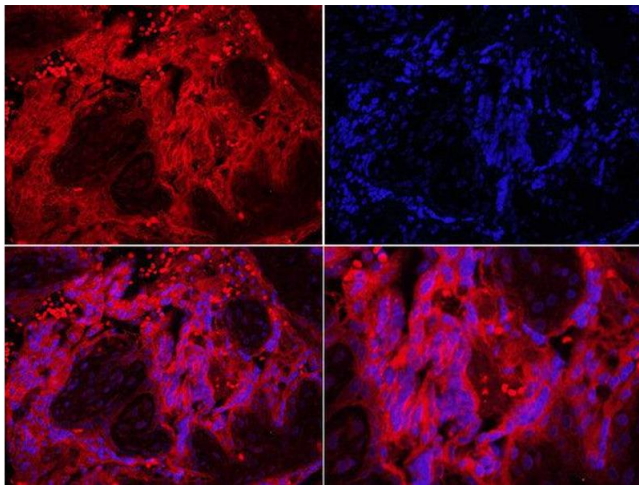
Product cited in: Lu, Liu, Gu, Ge, Wu, Ze-Ji, Qiu, Zhang, Chao, Yu: "Gene Expression Profiles Underlying Selective T-Cell-Mediated Immunity Activity of a Chinese Medicine Granule on Mice Infected with Influenza Virus H1N1." in: **Evidence-based complementary and alternative medicine : eCAM**, Vol. 2014, pp. 976364, (2014) ([PubMed](#)).

Images



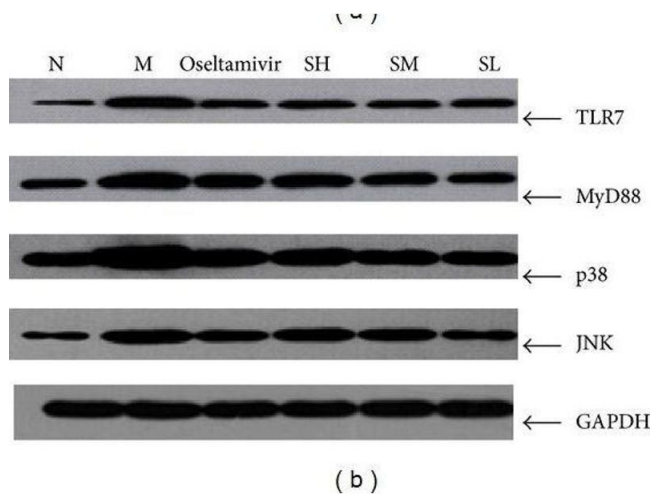
**Western Blotting**

**Image 1.** Mouse brain lysate probed with Rabbit Anti-TLR7 Polyclonal Antibody (ABIN718691) at 1:300 overnight in 4 °C. Followed by conjugation to the secondary antibody at 1:5000 90min in 37 °C



**Immunofluorescence (Paraffin-embedded Sections)**

**Image 2.** Formalin-fixed and paraffin embedded human placenta labeled with Rabbit Anti-TLR7 Polyclonal Antibody, Unconjugated DAPI staining



### Western Blotting

**Image 3.** Mice were anesthetized and then infected intranasally by dropping 0.05 mL of influenza virus suspension (4LD50) except normal control group. High-dose SFXF (3.76 mg/kg), medium-dose SFXF (1.88 mg/kg), low-dose SFXF (0.94 mg/kg), or Oseltamivir (11.375 mg/kg) was administrated daily starting at 2 hours before the first viral infection until 4 days post-infection (4dpi). Then total RNA was isolated from lung tissues of normal control, virus control, and Oseltamivir- and SFXF-treated mice and was analyzed by real-time PCR and western immunoblotting. (a) Relative quantification of the TLR7, MyD88, JNK, and p38 mRNA expressed in the mice lung tissue of six groups, with 12 mice in each group. The quantity of mouse TLR7, MyD88, JNK, and p38 mRNA expression was normalized to the mRNA expression of mouse GAPDH (a housekeeping gene). The quantities are shown as mean  $\pm$  standard deviation (SD) and two indicated groups as determined by the Newman-Keuls multiple comparison test following one-way ANOVA. Compared with the normal control group: ## $P < 0.01$  and compared with the virus control group: \* $P < 0.05$ , \*\* $P < 0.01$ . (b) Western immunoblottings of TLR7, MyD88, JNK, and p38 protein expressions in the mice lung tissue of six groups, with 12 mice in each group. In normal control group, mice were blank and not infected with H1N1 virus (N). Mice were infected with H1N1 virus but not treated with any drugs (M). And mice were infected with H1N1 virus with treatment of high-dose SFXF (SH), medium-dose SFXF (SM), low-dose SFXF (SL), and Oseltamivir. The total gray value of each band was determined using ECL reagents and IPP software. (c) Western immunoblottings of relative quantification of TLR7, MyD88, JNK, and p38 protein levels. The relative intensity data were shown as the ratios of the target gene intensity to GAPDH intensity. Data shown were the mean  $\pm$  SD of three independent experiments. \* $P < 0.05$

and \*\*P < 0.01 versus the virus control group (virus only). -  
figure provided by CiteAb. Source: PMID24527057

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN718691.