

TLR4 Polyclonal Antibody

Catalog No: #29072

Package Size: #29072-1 50ul #29072-2 100ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

Description

Product Name	TLR4 Polyclonal Antibody
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Affinity purification
Applications	WB,IF
Species Reactivity	Human;Mouse
Immunogen Description	A synthetic peptide of human TLR4 (NP_612564.1).
Conjugates	Unconjugated
Other Names	TLR4;ARMD10;CD284;TLR-4;TOLL
Accession No.	GeneID:7099Swiss Prot:O00206
Calculated MW	73kDa/91kDa/95kDa
SDS-PAGE MW	110kDa
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 161% glycerol.
Storage	Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.114.

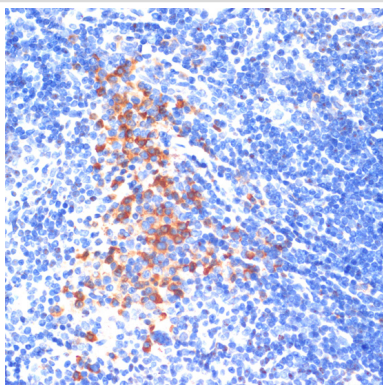
Application Details

WB□1:500 - 1:2000

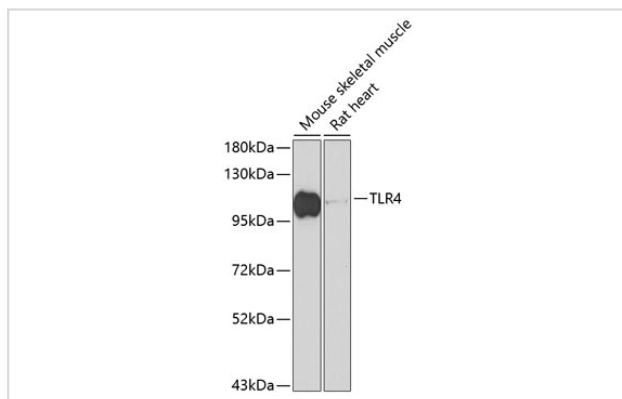
IHC□1:50 - 1:200

IF□1:50 - 1:200

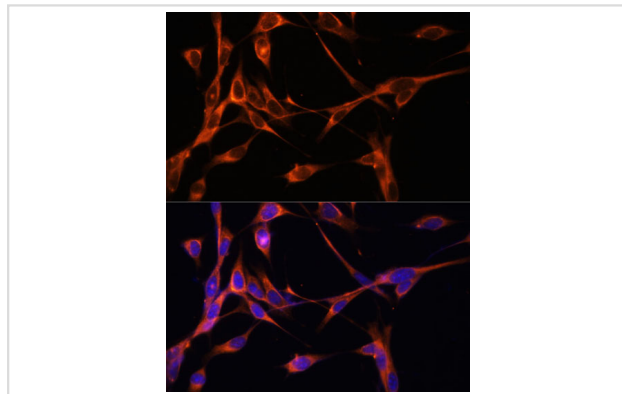
Images



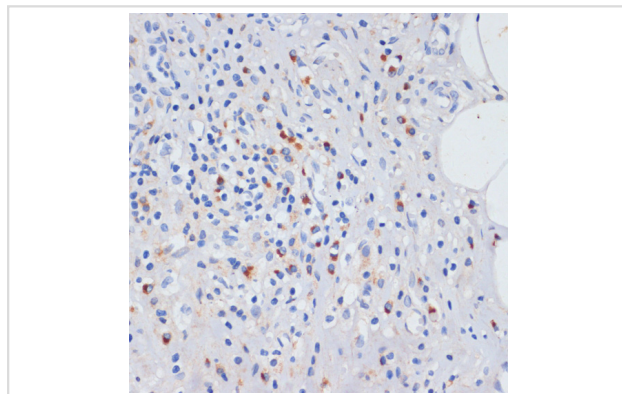
Immunohistochemistry of paraffin-embedded mouse spleen using TLR4 antibody at dilution of 1:100 .



Western blot analysis of extracts of various cell lines, using TLR4 antibody at 1:1000 dilution.



Immunofluorescence analysis of NIH-3T3 cells using TLR4 Polyclonal Antibody at dilution of 1:100 . Blue: DAPI for nuclear staining.



Immunohistochemistry of paraffin-embedded human appendix using TLR4 antibody at dilution of 1:100 .

Background

The protein encoded by this gene is a member of the Toll-like receptor (TLR) family which plays a fundamental role in pathogen recognition and activation of innate immunity. TLRs are highly conserved from *Drosophila* to humans and share structural and functional similarities. They recognize pathogen-associated molecular patterns that are expressed on infectious agents, and mediate the production of cytokines necessary for the development of effective immunity. The various TLRs exhibit different patterns of expression. This receptor has been implicated in signal transduction events induced by lipopolysaccharide (LPS) found in most gram-negative bacteria. Mutations in this gene have been associated with differences in LPS responsiveness. Multiple transcript variants encoding different isoforms have been found for this gene.

Published Papers

el at., The Extracts of *Angelica sinensis* and *Cinnamomum cassia* from Oriental Medicinal Foods Regulate Inflammatory and Autophagic Pathways against Neural Injury after Ischemic Stroke. In *Oxid Med Cell Longev* on 2021 Jun 26 by Cheng Luo, Qi Chen,et al..PMID:34257822, , (2021)
[PMID:34257822](#)

el at., Melatonin Attenuates LPS-Induced Proinflammatory Cytokine Response and Lipogenesis in Human Meibomian Gland Epithelial Cells via MAPK/NF- κ B Pathway. In *Invest Ophthalmol Vis Sci* on 2022 May 2 by Ren Liu, Jing Li, et al..PMID:35506935, , (2022)
[PMID:35506935](#)

el at., Combined Administration of Curcumin and Chondroitin Sulfate Alleviates Cartilage Injury and Inflammation via NF- κ B Pathway in Knee

Osteoarthritis Rats. In Front Pharmacol on 2022 May 19 by Ting Guan, Liu-Gang Ding, et al..PMID: 35662715, , (2022)

[PMID:35662715](#)

el at., Perihematomal Neurovascular Protection: Blocking HSP90 Reduces Blood Infiltration Associated with Inflammatory Effects Following Intracerebral Hemorrhage in Rats. In Transl Stroke Res on 2024 Sep 4 by Di Hu, Chao Yan,et al..PMID:39230786, , (2024)

[PMID:39230786](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.