Product Datasheet

TLR4 Antibody

Catalog No: #35463

Package Size: #35463-1 50ul #35463-2 100ul

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

Description

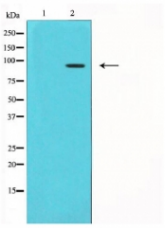
Product Name	TLR4 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by antigen-affinity chromatography.
Applications	WB IHC
Species Reactivity	Human;Mouse;Rat
Specificity	The antibody detects endogenous levels of total TLR4 protein.
Immunogen Type	Recombinant Protein
Immunogen Description	A synthesized peptide derived from human TLR4
Conjugates	Unconjugated
Target Name	TLR4
Other Names	ARMD10 antibody; CD284 antibody; TOLL antibody; hToll antibody; TLR4 antibody; homolog of Drosophila toll antibody; toll-like receptor 4 antibody
Accession No.	Swiss-Prot#:O00206;NCBI Gene#:7099
SDS-PAGE MW	96kd
Concentration	1mg/ml
Formulation	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

Application Details

Western blotting: 1:500-1:2000

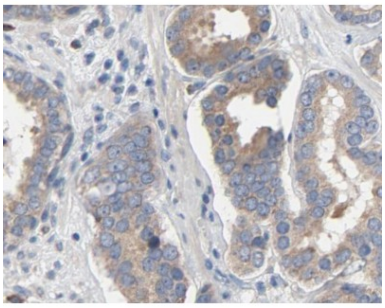
Immunofluorescence: 1:50-1:200

Images



Western blot analysis of TLR4 expression in Hela whole cell lysates,The lane on the left is treated with the antigen-specific peptide.

Western blot analysis of TLR4 expression in Hela whole cell lysates,The lane on the left is treated with the antigen-specific peptide.



Immunohistochemical analysis of paraffin-embedded human prostate tissue using TLR4 Antibody

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 (PAMPs) 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 is most abundantly expressed in placenta, and in myelomonocytic subpopulation of the leukocytes. It 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. Also, several transcript variants of this gene have been found, but the protein coding potential of most of them is uncertain. [provided by RefSeq]

Published Papers

el at., Prevention of acute kidney injury in a rodent model of cirrhosis following selective gut decontamination is associated with reduced renal TLR4 expression.In J Hepatol on 2012 May by Shah N, Dhar D, et al..PMID:22266601, , (2012)

PMID:22266601

el at., Vanillin Attenuates Proinflammatory Factors in a tMCAO Mouse Model via Inhibition of TLR4/NF-kB Signaling Pathway. In Neuroscience on 2022 May 21 by Ping Wang, Chunyi Li, et al..PMID: 35276304, , (2022)

PMID:35276304

el at., Cannabidiol attenuates periodontal inflammation through inhibiting TLR4/NF-κB pathwayInJ Periodontal ResOn2023 AugbyHao Chen?1,?Yaqi Liu et al..PMID:?37143211, , (2023)

PMID:37143211

el at., Small molecule inhibitor CRT0066101 inhibits cytokine storm syndrome in a mouse model of lung injury In Int ImmunopharmacolOn2023 JulbyBomiao Cui , Yiying Liu et al..PMID:37182445, , (2023)

PMID:37182445

el at., β-Sitosterol Alleviates Neuropathic Pain by Affect Microglia Polarization through Inhibiting TLR4/NF-κB Signaling PathwayInJ Neuroimmune PharmacolOn2023 DecbyYachun Zheng , Jiaji Zhao et al..PMID:38041701, , (2023)

PMID:38041701

el at., Prevotella copri promotes vascular calcification via lipopolysaccharide through activation of NF-κB signaling pathway. In Gut Microbes on 2024 Jan-Dec by Qing-Yun Hao, Jing Yan, et al..PMID:38727248, , (2024)

PMID:38727248

Hao Qing-Yun;Yan Jing;Wei Jin-Tao;Zeng Yu-Hong;Feng Li-Yun;Que Dong-Dong;Li Shi-Chao;Guo Jing-Bin;Fan Ying;Ding Yun-Fa;Zhang Xiu-Li;Yang Ping-Zhen;Gao Jing-Wei;Li Ze-Hua el at., Prevotella copri promotes vascular calcification via lipopolysaccharide through activation of NF-κB signaling pathway, , (2024)

PMID:

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