

Anti-Toll-like receptor 4 TLR4 Antibody

Catalog Number: PA1484

About TLR4

TLR4, Toll-like receptor 4, is a protein that in humans is encoded by the TLR4 gene. TLR 4 is a toll-like receptor. TLR4, the human homolog of Drosophila Toll, is a type I transmembrane protein with an extracellular domain consisting of a leucine-rich repeat region and an intracellular domain homologous to that of human interleukin-1 receptor. The TLR4 gene is mapped to chromosome 9q32-q33 by fluorescence in situ hybridization. It detects lipopolysaccharide from Gram-negative bacteria and is thus important in the activation of the innate immune system. 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.

Overview

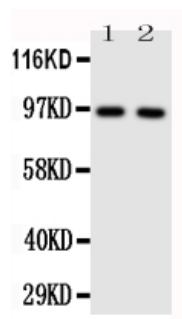
Product Name	Anti-Toll-like receptor 4 TLR4 Antibody
Reactive Species	Human
Description	Boster Bio Anti-Toll-like receptor 4 TLR4 Antibody catalog # PA1484. Tested in IHC, WB applications. This antibody reacts with Human.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2mg Na2HPO4, 0.05 mg NaN3.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	O00206

Technical Details

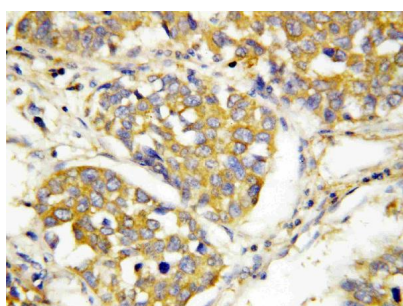
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human TLR4.
Predicted Reactive Species	Hamster
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Mouse IgG (EK1001) for Western blot, and HRP Conjugated anti-Mouse IgG Super Vision Assay Kit (SV0001-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG

Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, By Heat</p> <p>Western blot, 0.1-0.5ug/ml, Human</p>

Anti-Toll-like receptor 4 TLR4 Antibody (PA1484) Images



Anti-TLR4 antibody, PA1484, Western blotting
Lane 1: HELA Cell Lysate
Lane 2: SMMC Cell Lysate



Anti-TLR4 antibody, PA1484, IHC(P)
IHC(P): Human Lung Cancer Tissue

30 Publications Citing This Product

1. PubMed ID: 10.1016/j.jtherbio.2019.07.003, Effect of curcumin supplementation on TLR4 mediated non-specific immune responses in liver of laying hens under high-temperature conditions
2. PubMed ID: 34000276, Liu J,Zhang N,Zhang M,Yin H,Zhang X,Wang X,Wang X,Zhao Y.N-acetylserotonin alleviated the expression of interleukin-1beta in retinal ischemia-reperfusion rats via the TLR4/NF-kappaB/NLRP3 pathway.Exp Eye Res.2021 May 14:108595.doi:10.1016/j.exer.2021.108595.Epub ahead of print.PMID:34000276.
3. PubMed ID: -, Daiyang Xia,Lin Yang,Yu Li,Jianning Chen,Xiufen Zhang,Heng Wang,Shuangshuang Zhai,Xianzhi Jiang,Giuseppe Meca,Shunxiang Wang,Liang Huang,Shanshan Zhu,Yang Fu,Weiqing Ma,Yongwen Zhu,Hui Ye,Wence Wang,Melatonin alleviates Ochratoxin A-induced liver inflamma

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