

Datasheet for ABIN736491

anti-TLR4 antibody (AA 751-835)

8 Images

13 Publications

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Overview

Quantity:	100 µL
Target:	TLR4
Binding Specificity:	AA 751-835
Reactivity:	Human, Mouse, Rat, Cow
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TLR4 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from rat TLR4
Isotype:	IgG
Cross-Reactivity:	Cow, Human, Mouse, Rat
Predicted Reactivity:	Dog, Sheep, Pig
Purification:	Purified by Protein A.

Target Details

Target:	TLR4
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Target Details

Alternative Name:	TLR4 (TLR4 Products)
Background:	<p>Synonyms: Lps, Ly87, Ran/M1, Rasl2-8, Toll-like receptor 4, CD284, Tlr4</p> <p>Background: Cooperates with LY96 and CD14 to mediate the innate immune response to bacterial lipopolysaccharide (LPS). Acts via MYD88, TIRAP and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response. Also involved in LPS-independent inflammatory responses triggered by free fatty acids, such as palmitate. In complex with TLR6, promotes sterile inflammation in monocytes/macrophages in response to oxidized low-density lipoprotein (oxLDL) or amyloid-beta 42. In this context, the initial signal is provided by oxLDL- or amyloid-beta 42-binding to CD36. This event induces the formation of a heterodimer of TLR4 and TLR6, which is rapidly internalized and triggers inflammatory response, leading to the NF-kappa-B-dependent production of CXCL1, CXCL2 and CCL9 cytokines, via MYD88 signaling pathway, and CCL5 cytokine, via TICAM1 signaling pathway, as well as IL1B secretion.</p>
Gene ID:	21898
UniProt:	Q9QX05
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 1:300-5000 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
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL

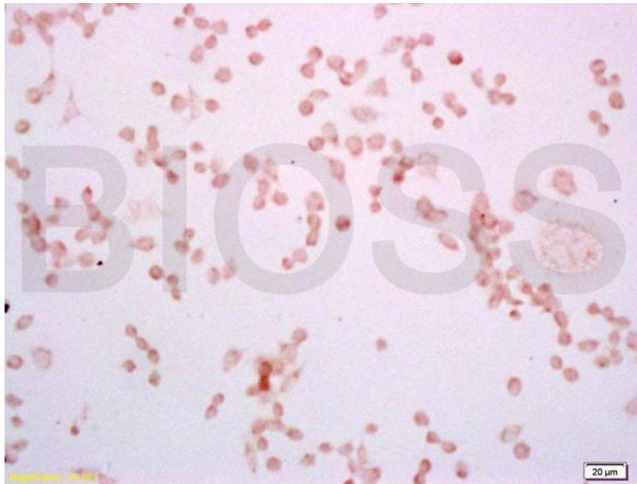
Handling

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

Publications

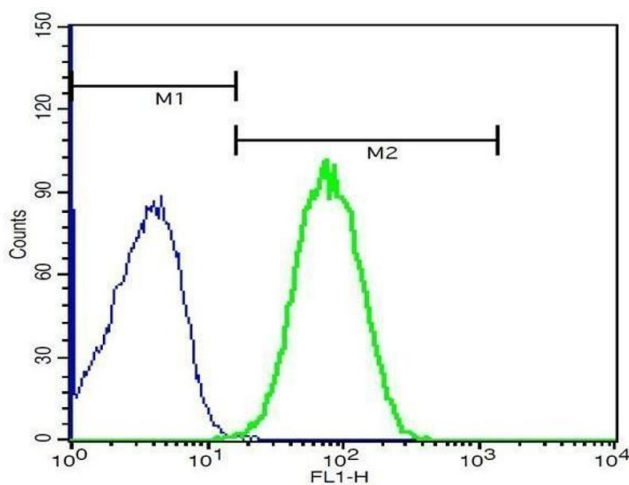
- Product cited in:
- Kulhankova, Kinney, Stach, Gourronc, Grumbach, Klingelhutz, Salgado-Pabón: "The Superantigen Toxic Shock Syndrome Toxin-1 Alters Human Aortic Endothelial Cell Function." in: **Infection and immunity**, (2018) ([PubMed](#)).
- Xu, Zheng, Liu, Li, Yang, Shang: "Glucocalyxin B Alleviates Lipopolysaccharide-Induced Parkinson's Disease by Inhibiting TLR/NF-κB and Activating Nrf2/HO-1 Pathway." in: **Cellular physiology and biochemistry : international journal of experimental cellular physiology, biochemistry, and pharmacology**, Vol. 44, Issue 6, pp. 2091-2104, (2018) ([PubMed](#)).
- Harasymowicz, Clement, Azfer, Burnett, Salter, Simpson: "Regional Differences Between Perisynovial and Infrapatellar Adipose Tissue Depots and Their Response to Class II and Class III Obesity in Patients With Osteoarthritis." in: **Arthritis & rheumatology (Hoboken, N.J.)**, Vol. 69, Issue 7, pp. 1396-1406, (2017) ([PubMed](#)).
- Wang, Li, Liu, Wang, Cao: "Inhibitory effect of Zanthoxylum bungeanum seed oil on ovalbumin-induced lung inflammation in a murine model of asthma." in: **Molecular medicine reports**, Vol. 13, Issue 5, pp. 4289-302, (2017) ([PubMed](#)).
- Arfian, Muflikhah, Soeyono, Sari, Tranggono, Anggorowati, Romi: "Vitamin D Attenuates Kidney Fibrosis via Reducing Fibroblast Expansion, Inflammation, and Epithelial Cell Apoptosis." in: **The Kobe journal of medical sciences**, Vol. 62, Issue 2, pp. E38-44, (2016) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



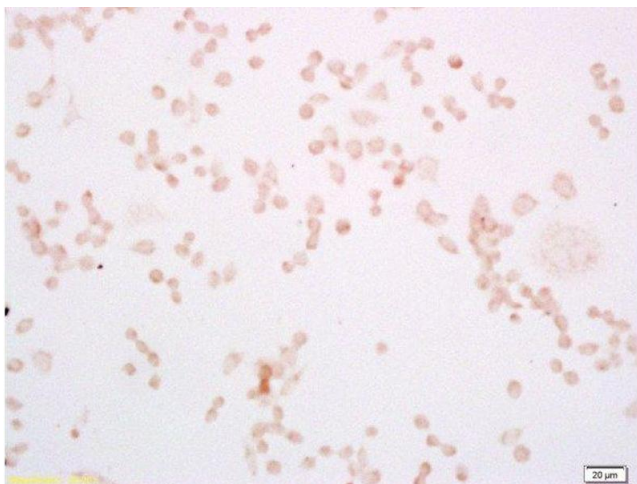
Immunohistochemistry

Image 1. Mouse macrophages(RAW264.7) labeled with Rabbit Anti TLR4/CD284 Polyclonal Antibody, Unconjugated (ABIN736491) at 1:200 followed by conjugation to the secondary antibody and DAB staining



Flow Cytometry

Image 2. Mouse splenocytes probed with Rabbit Anti-TLR4 Polyclonal Antibody .



Immunofluorescence (Cultured Cells)

Image 3. Mouse macrophages(RAW264.7)labeled with Rabbit Anti TLR4/CD284 Polyclonal Antibody, Unconjugated at 1:200 followed by conjugation to the secondary antibody and DAB staining

Please check the [product details page](#) for more images. Overall 8 images are available for ABIN736491.