bs-1021R **[Primary Antibody]**

TLR4 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 29260 **SWISS:** Q9QX05

Target: TLR4

Immunogen: KLH conjugated synthetic peptide derived from rat TLR4: 751-835/835. < Cytoplasmic >

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: The Toll-like receptor 4 by activating natural immunity, specific immune response involved in the start-up, Toll-like receptor 4 as an important signal transduction transmembrane receptor involved in the toxin-induced inflammation in the pathological process, its mechanisms of control On a growing concern. all regions were either double-stranded or sequenced with an alternatechemistry or covered by high quality data(i.e., phred quality >=30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by at least one subclone; and the assembly was confirmed by restriction digest, except on the rare occasion of the clone being a YAC. The following abbreviations are used to associate primary accession numbers given in the feature table with their source databases: Em:, EMBL; Sw:, SWISSPROT; Tr:, TREMBL; Wp:, WORMPEP; Information on the WORMPEP database can be found at. TLR-4 plays an important role in microvascular leakage and leukocyte adhesion under the inflammatory condition associated with nonseptic thermal injury.

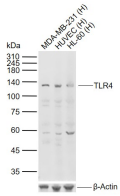
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (2ug/Test)
ICC/IF (1:100)

Reactivity: Human, Rat (predicted: Mouse, Pig, Sheep, Cow, Dog)

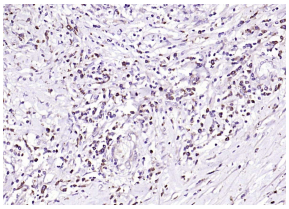
Predicted MW.: 90 kDa

Subcellular Location: Cell membrane ,Cytoplasm

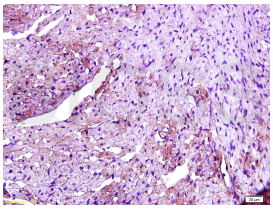
VALIDATION IMAGES



Sample: Lane 1: Human MDA-MB-231 cell lysates Lane 2: Human HUVEC cell lysates Lane 3: Human HL-60 cell lysates Primary: Anti-TLR4 (bs-1021R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 90 kDa Observed band size: 120 kDa



Paraformaldehyde-fixed, paraffin embedded (Human esophageal cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (TLR4) Polyclonal Antibody, Unconjugated (bs-1021R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Tissue/cell: rat heart tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-TLR4/CD284 Polyclonal Antibody, Unconjugated(bs-1021R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

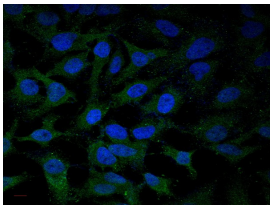
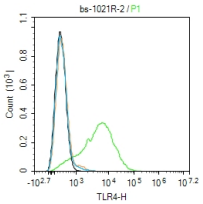
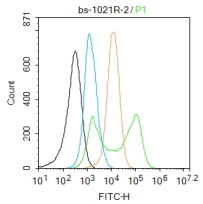


Image submitted by One World Lab validation program. HL60 and MCF-7 cells were stained with rabbit polyclonal antibody against TLR4 with two dilutions (1:100 and 1:250). 2nd antibody without primary antibody was used as control included here.



Blank control:K562. Primary Antibody (green line): Rabbit Anti-TLR4 antibody (bs-1021R) Dilution: 0.5ug/Test; Secondary Antibody (white blue line) : Goat anti-rabbit IgG-AF488 Dilution: 0.5ug/Test. Isotype control（orange line）： Normal Rabbit IgG Protocol The cells were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.



Blank control: Raw264.7. Primary Antibody (green line): Rabbit Anti-TLR4 antibody (bs-1021R) Dilution: 2μg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-AF488 Dilution: 1μg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 0.1% PBST for 20 min at at room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature.The secondary antibody used for 40 min at room temperature.Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=8.96]** Harasymowicz, Natalia S., et al. "Regional Differences Between Perisynovial and Infrapatellar Adipose Tissue Depots and Their Response to Class II and III Obesity in Patients with OA." Arthritis & Rheumatology (2017). IHC ;="Human". 28320058
- **[IF=7.727]** Xue Wang. et al. Engineered liposomes targeting the gut–CNS Axis for comprehensive therapy of spinal cord injury. J Control Release. 2021 Mar;331:390 WB,IHC ;Mouse. 33485884
- **[IF=8.039]** Yifan Zhu. et al. Discovery of Selective P2Y6R Antagonists with High Affinity and In Vivo Efficacy for Inflammatory Disease Therapy. J MED CHEM. 2023;XXXX(XXX):XXX-XXX WB ;Mouse. 37078976
- **[IF=7.3]** Kohtaro Fukuyama. et al. Establishment of a porcine bronchial epithelial cell line and its application to study innate immunity in the respiratory epithelium. FRONT IMMUNOL. 2023; 14: 1117102 ICC ;Pig. 37465671
- **[IF=6.78]** Mona F. El-Azab. et al. A novel role of Nano selenium and sildenafil on streptozotocin-induced diabetic nephropathy in rats by modulation of inflammatory, oxidative, and apoptotic pathways. LIFE SCI. 2022 Aug;303:120691 IHC ;Rat. 35671809