bs-1444R **[Primary Antibody]**

TLR3 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 7098 **SWISS:** O15455

Target: TLR3

Immunogen: KLH conjugated synthetic peptide derived from human TLR3: 801-905/905. < 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 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 pancreas, and is restricted to the dendritic subpopulation of the leukocytes. It recognizes dsRNA associated with viral infection, and induces the activation of NF-kappaB and the production of type I interferons. It may thus play a role in host defense against viruses. Use of alternative polyadenylation sites to generate different length transcripts has been noted for this gene.

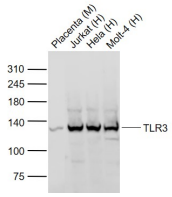
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

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

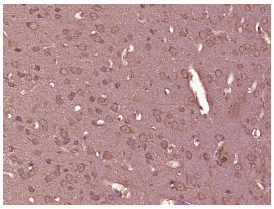
Predicted MW.: 100 kDa

Subcellular Location: Cell membrane

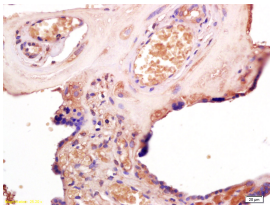
VALIDATION IMAGES



Sample: Lane 1: Placenta (Mouse) Lysate at 40 ug Lane 2: Jurkat (Human) Cell Lysate at 30 ug Lane 3: Hela (Human) Cell Lysate at 30 ug Lane 4: Molt-4 (Human) Cell Lysate at 30 ug Primary: Anti-TLR3 (bs-1444R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 116 kD Observed band size: 120 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); 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 (TLR3) Polyclonal Antibody, Unconjugated (bs-1444R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Tissue/cell: human placenta 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-TLR3 Polyclonal Antibody, Unconjugated(bs-1444R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

SELECTED CITATIONS

- **[IF=8.8]** Shasha Liu. et al. STAT3 regulates antiviral immunity by suppressing excessive interferon signaling. CELL REP. 2023 Jul;42:112806 WB ;Human. 37440406

- **[IF=6.7]** Lingfeng Xie. et al. Thermo-responsive hydrogel loading hypericin induces pro-inflammatory response against trichinella spiralis infection via toll-like receptor 3 activation. PHYTOMEDICINE. 2024 Nov;:156284 WB ;Mouse. 39608163
- **[IF=4.6]** Wang, Shaolan, et al. "Xenobiotic receptor PXR regulates innate immunity via activation of NLRP3 inflammasome in vascular endothelial cells." Journal of Biological Chemistry (2014): jbc-M114. WB ;="Human". 25202020
- **[IF=4.8]** Weiye Li. et al.Regulatory effects of yam (Dioscorea opposita Thunb.) glycoprotein on energy metabolism in C2C12 and 3T3-L1 cells and on crosstalk between these two cells.JOURNAL OF ETHNOPHARMACOLOGY.2025 Feb 10;338(Pt 1):119013. Western blot ;Mouse. 39481620
- **[IF=5.246]** Zou Xiong. et al. Toll-Like Receptors Serve as Biomarkers for Early Diagnosis and Prognosis Assessment of Kidney Renal Clear Cell Carcinoma by Influencing the Immune Microenvironment: Comprehensive Bioinformatics Analysis Combined With Experimental Validation. Front Mol Biosci. 2022 Jan;0:24 FCM ;Human. 35127830