**bs-6601R** **[ Primary Antibody ]**

# TLR7 Rabbit pAb

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## DATASHEET

**Host:** Rabbit **Isotype:** IgG

**Clonality:** Polyclonal

**GeneID:** 51284 **SWISS:** Q9NYK1

**Target:** TLR7

**Immunogen:** KLH conjugated synthetic peptide derived from human TLR7: 461-560/1049. < Extracellular >

**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:** Key component of innate and adaptive immunity. TLRs (Toll-like receptors) control host immune response against pathogens through recognition of molecular patterns specific of microorganisms. TLR7 is a nucleotide-sensing TLR which is activated by single-stranded RNA. Acts via MYD88 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response.

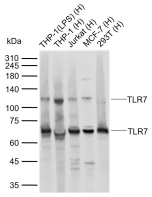
**Applications:** **WB** (1:500-2000)

**Reactivity:** Human

**Predicted MW.:** 121 kDa

**Subcellular Location:** Cell membrane ,Cytoplasm

## VALIDATION IMAGES




Sample: Lane 1: Human THP-1(LPS) cell lysates Lane 2: Human THP-1 cell lysates Lane 3: Human Jurkat cell lysates Lane 4: Human MCF-7 cell lysates Lane 5: Human 293T cell lysates Primary: Anti-TLR7 (bs-6601R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 121 kDa Observed band size: 65,121 kDa

## SELECTED CITATIONS


- **[IF=10.419]** Takashi Umeharaet al. A simple sperm-sexing method that activates TLR7/8 on X sperm for the efficient production of sexed Mouseor cattle embryos. Nat Protoc . 2020 Aug;15(8):2645-2667. FCM ;mouse. 32681149
- **[IF=8.386]** Umehara T et al. Activation of Toll-like receptor 7/8 encoded by the X chromosome alters sperm motility and provides a novel simple technology for sexing sperm. PLoS Biol. 2019 Aug 13;17(8):e3000398. WB ;Mouse. 31408454
- **[IF=8.025]** Fei Wen. et al. TLR7/8 agonist (R848) inhibit bovine X sperm motility via PI3K/GSK3α/β and PI3K/NFκB pathways. INT J BIOL MACROMOL. 2023 Mar;232:123485 IF ;Bovine. 36731692
- **[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=3.777]** Ling Shuai. et al. Hydroxychloroquine protects against autoimmune premature ovarian insufficiency by

modulating the Treg/Th17 cell ratio in BALB/c mice. AM J REPROD IMMUNOL. 2023 Feb;: WB ;Mouse. 36752682