Product Datasheet

TLR4 Antibody - BSA Free
NB100-56579SS

Unit Size: 0.025 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

Reviews: 2 Publications: 12

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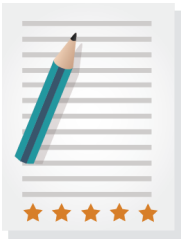
Updated 2/21/2025 v.20.1



NB100-56579SS

TLR4 Antibody - BSA Free

Product Information

Unit Size	0.025 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein G purified
Buffer	PBS
Target Molecular Weight	95.7 kDa

Product Description

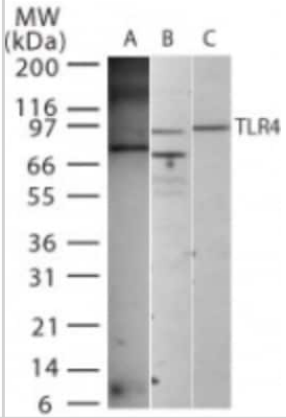
Host	Rabbit
Gene ID	7099
Gene Symbol	TLR4
Species	Human, Mouse
Immunogen	This TLR4 antibody was developed against a portion of amino acids 100-150 of human TLR4.

Product Application Details

Applications	Western Blot, Immunoprecipitation
Recommended Dilutions	Western Blot 2 - 5 ug/mL, Immunoprecipitation reported in scientific literature (Ueta et al (2004))
Application Notes	Observed size: approx. 90 kDa (native) or 80 kDa (partial recombinant mouse TLR4, extracellular portion plus His-tag)

Images

Western Blot: TLR4 Antibody [NB100-56579] - Analysis of TLR4 using this antibody on (A) 1 ug/lane recombinant mouse TLR4 protein (tested at 2 ug/mL), (B) 20 ug/lane human intestine, and (C) 20 ug/lane mouse intestine (tested at 5 ug/mL on intestine lysates).



Publications

Liang Zhou, Lei Fang, Michael Roth, Eleni Papakonstantinou, Michael Tamm, Daiana Stolz Heat-Induced Secretion of Heat Shock Proteins 70 and 90 Does not Affect the Expression of the Glucocorticoid Receptor in Primary Airway Cells in COPD Lung 2024-04-19 [PMID: 38641747]

Oka SI, Byun J, Huang CY, Imai N, Ralda G, Zhai P, Xu X, Kashyap S, Warren JS, Alan Maschek J, Tippetts TS, Tong M, Venkatesh S, Ikeda Y, Mizushima W, Kashihara T, Sadoshima J. Nampt Potentiates Antioxidant Defense in Diabetic Cardiomyopathy 2021-04-30 [PMID: 33928788] (WB, Mouse)

Cho D, Zhang S, Lazrak A et al. LPS DECREASES CFTR OPEN PROBABILITY AND MUCOCILIARY TRANSPORT THROUGH GENERATION OF REACTIVE OXYGEN SPECIES Redox Biology 2021-04-01 [PMID: 33971543] (WB, Mouse)

Krishnan S, Chen S, Turcatel G et al. Regulation of Toll-like receptor 2 interaction with Ecgp96 controls Escherichia coli K1 invasion of brain endothelial cells Cell Microbiol. 2013-01-01 [PMID: 22963587] (WB, Human)

Gandhi Shiv K, Siliciano Janet D, Bailey Justin R et al. Role of APOBEC3G/F-mediated hypermutation in the control of human immunodeficiency virus type 1 in elite suppressors. J Virol. 2008-03-01 [PMID: 18077705]

Merline Rosetta, Moreth Kristin, Beckmann Janet et al. Signaling by the matrix proteoglycan decorin controls inflammation and cancer through PDCD4 and MicroRNA-21. Sci Signal. 2011-01-01 [PMID: 22087031] (IP)

Suzuki Mayumi, Tachibana Isao, Takeda Yoshito et al. Tetraspanin CD9 negatively regulates lipopolysaccharide-induced macrophage activation and lung inflammation. J Immunol. 2009-05-15 [PMID: 19414803] (Mouse)

Jin Yingji, Tachibana Isao, Takeda Yoshito et al. Statins decrease lung inflammation in mice by upregulating tetraspanin CD9 in macrophages. PLoS One. 2013-01-01 [PMID: 24040034] (WB, Mouse)

Moreth K, Frey H, Hubo M et al. Biglycan-triggered TLR-2- and TLR-4-signaling exacerbates the pathophysiology of ischemic acute kidney injury. Matrix Biol. 2014-01-28 [PMID: 24480070] (WB, Mouse)

Details:
Murine peritoneal macrophages, Fig 1C. Cells were IPd with biglycan, followed by WB with the TLR2 pAb. The IP/WB results showed that that TLR2 co-IPd with biglycan, indicating protein-protein interactions between biglycan and TLR2. TLR2 was detected at 90

Park HJ, Hong JH, Kwon HJ et al. TLR4-mediated activation of mouse macrophages by Korean mistletoe lectin-C (KML-C). Biochem Biophys Res Commun. 2010-06-04 [PMID: 20450885] (WB, Mouse)

Details:
The following antibodies were used: TLR4/CD284 (IMG-428E), TLR4/CD284 (IMG-577), and TLR4 (IMG-6307A). IMG-577 & IMG-6307A were used in Fig 1 (WB): Peritoneal primary mouse (BALB/C) macrophages stimulated with LPS and then treated with KML-C (Korean mistl

Bansal K, Elluru SR, Narayana Y et al. PE_PGRS antigens of Mycobacterium tuberculosis induce maturation and activation of human dendritic cells. J Immunol. 2010-04-01 [PMID: 20176745] (WB)

Details:
The following antibodies were used for WB in Fig 4B, 4C using HEK-293 cells transiently transfected with TLR2 or TLR2 dominant negative constructs: 1. TLR1 (IMG-5012), 2. TLR2 IMG-(6320A), 3. TLR4 (IMG-577), 4.TLR6 (IMG-527).Note: TLR2 was transfected validated in Fig 4B.

Ueta M, Nochi T, Jang MH et al. Intracellularly expressed TLR2s and TLR4s contribution to an immunosilent environment at the ocular mucosal epithelium. J Immunol. 2004-09-01 [PMID: 15322197] (IP)

Details:
1. TLR4 (IMG-577) [IP, see results section].

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