Product Datasheet

TLR1 Antibody - BSA Free
NB100-56563

Unit Size: 0.1 mg

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

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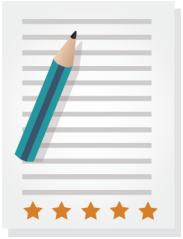
Updated 2/21/2025 v.20.1



NB100-56563

TLR1 Antibody - BSA Free

Product Information

Unit Size	0.1 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

Product Description

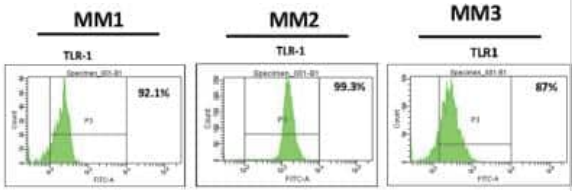
Host	Rabbit
Gene ID	7096
Gene Symbol	TLR1
Species	Human, Mouse, Rat
Immunogen	This antibody was developed against a KLH-conjugated synthetic peptide corresponding to a sequence within amino acids 400-450 of human TLR1.

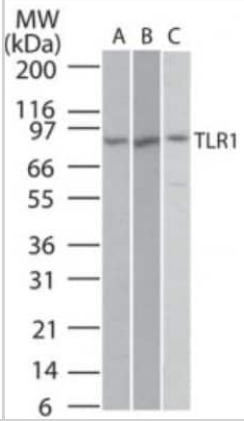
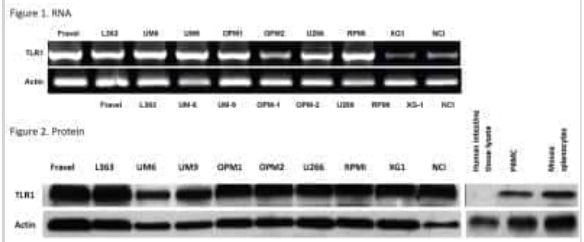
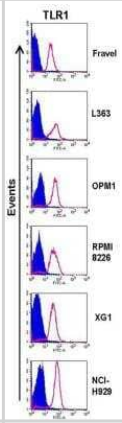
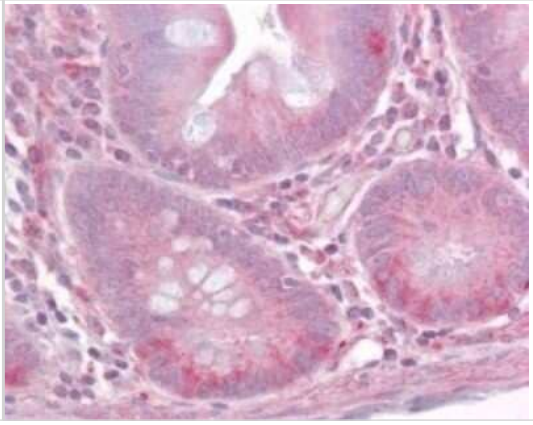
Product Application Details

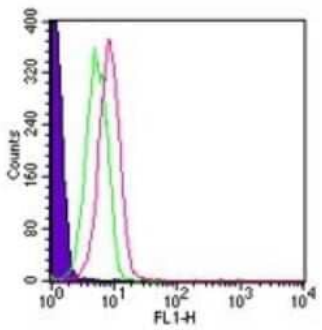
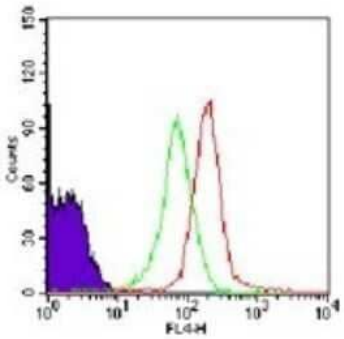
Applications	Western Blot, Dot Blot, Flow Cytometry, Flow (Cell Surface), Flow (Intracellular), Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1-3 ug/ml, Flow Cytometry 2-4 ug/ 1x10-6 cells, Immunohistochemistry reported in scientific literature (PMID 27008696), Immunohistochemistry-Paraffin 10 ug/ml, Dot Blot, Flow (Cell Surface) reported in scientific literature (Wong et al (2007); PMID 23593278), Flow (Intracellular) 0.5-1 ug/1 million cells
Application Notes	In Ramos, an 87 kDa band is observed. Flow (Intracellular) reported in scientific literature (PMID: 23593278)

Images

Flow Cytometry: TLR1 Antibody [NB100-56563] - TLR1 expression pattern in primary BMNCs from 3 MM patients analyzed by flow cytometry. CD138-positive cells were gated from the total cell population. Staining for was compared with isotype-matched controls (NC). Image collected and cropped by CiteAb from the following publication (//doi.org/10.1371/journal.pone.0060671) licensed under a CC-BY license.



Western Blot: TLR1 Antibody [NB100-56563] - analysis of TLR1 in Ramos (A), Raw (B), and (C) TLR1 transfected cell lysate using this antibody. goat anti-rabbit HRP secondary antibody was used.	
Western Blot: TLR1 Antibody [NB100-56563] - All the cell lines expressed mRNA for TLR1 (Figure 1) and displayed a strong expression of TLR1 protein (Figure 2). Cell lysates were electrophoresed and blotted to PVDF membrane, which was probed with TLR1-specific antibody. To confirm the immunoreactivity of the antibody, different positive controls were included. Beta-actin was served as loading control and was used to normalize expression levels between cells. Data are representative for analysis of >=2 independent experiments. Image collected and cropped by CiteAb from the following publication (//doi.org/10.1371/journal.pone.0060671) licensed under a CC-BY license.	
Flow Cytometry: TLR1 Antibody [NB100-56563] - Expression of TLR1 in Fravel, L363, OPM1, RPMI8226, XG1, and NCI-H929 as determined by flow cytometry. HCMLs were stained using an intracellular staining protocol with TLR1 antibodies followed by relevant secondary fluorescent-conjugated antibodies. Filled histograms (purple) represent the isotype controls and the open histograms (red) indicate TLR1. Data are representative for analysis of >=2 independent experiments. Image collected and cropped by CiteAb from the following publication (//doi.org/10.1371/journal.pone.0060671) licensed under a CC-BY license.	
Immunohistochemistry-Paraffin: TLR1 Antibody [NB100-56563] - analysisof human small intestine using this antibody at 10 ug/ml.	

Flow Cytometry: TLR1 Antibody [NB100-56563] - Analysis using the Alexa Fluor (R) 488 conjugate of NB100-56563. Staining of TLR1 in human PBMCs (lymphocyte-gated) using this antibody at 10 ul/10^6 cells. Shaded histogram represents cells alone, green represents isotype controlwas used for this test.	
Flow Cytometry: TLR1 Antibody [NB100-56563] - Intracellular analysis of TLR1 AF647 in human PBMCs (lymphocyte-gated) using this antibody at 10 ul/10^6 cells. Shaded histogram represents cells without antibody, green represents isotype control, red represents TLR1 antibody.	

Publications

Li Y, Chen X, Jin R et al. Injectable hydrogel with MSNs/microRNA-21-5p delivery enables both immunomodification and enhanced angiogenesis for myocardial infarction therapy in pigs Science advances 2021-02-05 [PMID: 33627421] (WB, Mouse)

Shang L, Deng D, Roffel S, Gibbs S Differential influence of Streptococcus mitis on host response to metals in reconstructed human skin and oral mucosa Contact Derm. 2020-07-16 [PMID: 32677222] (WB, Human)

Huhta H, Helminen O, Kauppila JH et al. The Expression of Toll-like Receptors in Normal Human and Murine Gastrointestinal Organs and the Effect of Microbiome and Cancer J. Histochem. Cytochem. 2016-08-01 [PMID: 27370795] (IHC-P, Human)

Jeon YK, Kim CK, Koh J et al. Pellino-1 confers chemoresistance in lung cancer cells by upregulating cIAP2 through Lys63-mediated polyubiquitination. Oncotarget. 2016-07-05 [PMID: 27248820] (Cytometric Bead Assay Standard, Human)

Huhta H, Helminen O, Lehenkari PP et al. Toll-like receptors 1, 2, 4 and 6 in esophageal epithelium, Barrett's esophagus, dysplasia and adenocarcinoma. Oncotarget 2016-04-26 [PMID: 27008696] (IF/IHC, Human)

Regan T, Nally K, Carmody R et al. Identification of TLR10 as a Key Mediator of the Inflammatory Response to Listeria monocytogenes in Intestinal Epithelial Cells and Macrophages. J Immunol 2013-12-15 [PMID: 24198280] (FLOW)

Wu J, Meng Z, Jiang M et al. Toll-like receptor-induced innate immune responses in non-parenchymal liver cells are cell type-specific. Immunology. [PMID: 19922426]

Details:
Citation using the PE/Cy5 form of this antibody.

Stridh L, Smith PL, Naylor AS et al. Regulation of toll-like receptor 1 and -2 in neonatal mice brains after hypoxia-ischemia. J Neuroinflammation. 2011-05-10 [PMID: 21569241]

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.

Palladino Michael A, Savarese Michael A, Chapman Jessica L et al. Localization of Toll-like receptors on epididymal epithelial cells and spermatozoa. Am J Reprod Immunol. 2008-12-01 [PMID: 19032616]

Wong CK, Cheung PF, Ip WK et al. Intracellular signaling mechanisms regulating toll-like receptor-mediated activation of eosinophils. Am J Respir Cell Mol Biol. 2007-07-01 [PMID: 17332440] (WB, Human)

Details:
Human blood eosinophils and neutrophils from buffy coat: For WB, Fig. 1A: TLR1 (IMG-5012), TLR5 (IMG-664), TLR6 (IMG-304A), TLR7 (IMG-540), TLR8 (IMG-321A), TLR9 (IMG-305A). For Flow (Intracellular) and Flow (Surface), Fig. 1B: TLR1 (IMG-5021), TLR2 (IMG-416C), TLR3 (IMG-315C), TLR4 (IMG-417C), TLR5 (IMG-663C), TLR6 (IMG-304C), TLR7 (IMG-665A), TLR8 (IMG-321C), TLR9 (IMG-305C).

Abdi J, Mutis T, Garssen J, Redegeld F. Characterization of the Toll-like receptor expression profile in human multiple myeloma cells. PLoS One. 2013-04-08 [PMID: 23593278] (Flow Cytometry Control, WB)

Details:
Antibodies cited [multiple myeloma (MM) cell lines, human intestine tissue lysate, PBMC, mouse splenocytes] for WB (Figs 2, 3, 4A, 4B, 5, Table 1) and Flow (Intracellular): Figs 4C, 6-8, Table 1: 1. TLR1 (IMG-5012) 2. TLR2 (IMG-416A)3. TLR3 (IMG-315A)4 TL

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Products Related to NB100-56563

NBP2-25297	Pam3CSK4, TLR1 and TLR2 Ligand
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NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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