# **Product Datasheet**

# TLR8 Antibody (44C143) - BSA Free NBP2-24917

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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### NBP2-24917

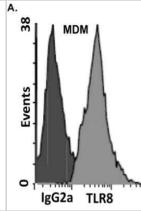
TLR8 Antibody (44C143) - BSA Free

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	Monoclonal
Clone	44C143
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein G purified
Buffer	PBS pH 7.4
Product Description	
Host	Mouse
Gene ID	51311
Gene Symbol	TLR8
Species	Human, Mouse, Rabbit
Immunogen	This antibody was developed against a KLH-conjugated synthetic peptide of human TLR8, within amino acids 750-850.
Product Application Details	
Applications	Western Blot, Simple Western, Dot Blot, Flow Cytometry, Flow (Cell Surface), Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, CyTOF-ready
Recommended Dilutions	Western Blot 1-3 ug/ml, Simple Western 20 ug/ml, Flow Cytometry 0.5-1 ug/10^6 cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 5 ug/ml, Dot Blot reported in scientific literature (PMID 27248820), Flow (Cell Surface) reported in multiple pieces of scientific literature, Flow (Intracellular) reported in reported in multiple pieces of scientific literature (PMID 24836676), CyTOF-ready
Application Notes	Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10 mM sodium citrate buffer, pH 6.0 for 10-20 min followed by cooling at RT for 20 min.

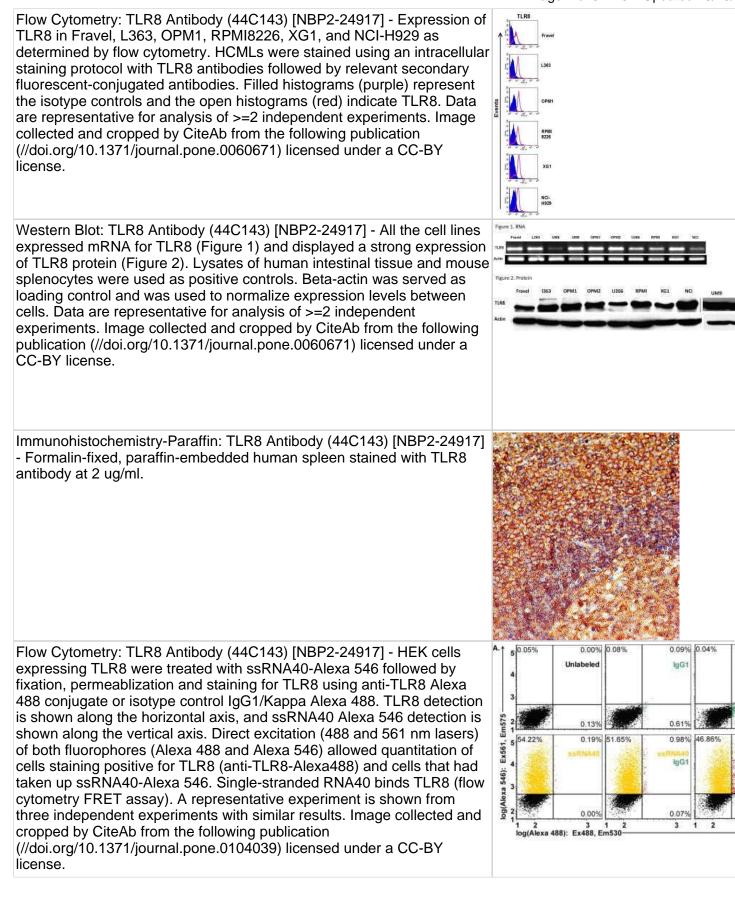
#### Images

Flow Cytometry: TLR8 Antibody (44C143) [NBP2-24917] - Intracellular expression of TLR8 in monocyte-derived macrophages (MDMs). MDMs which were incubated with PE-conjugated anti-TLR8 or isotype antibody control. Intracellular expression was determined by flow cytometry. Representative profiles were similar in four independent experiments (n=4 subjects). Image collected and cropped by CiteAb from the following publication (//doi.org/10.1371/journal.pone.0104039) licensed under a CC-BY license.

This antibody is CyTOF ready.







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0.08%

2.73%

2.36%

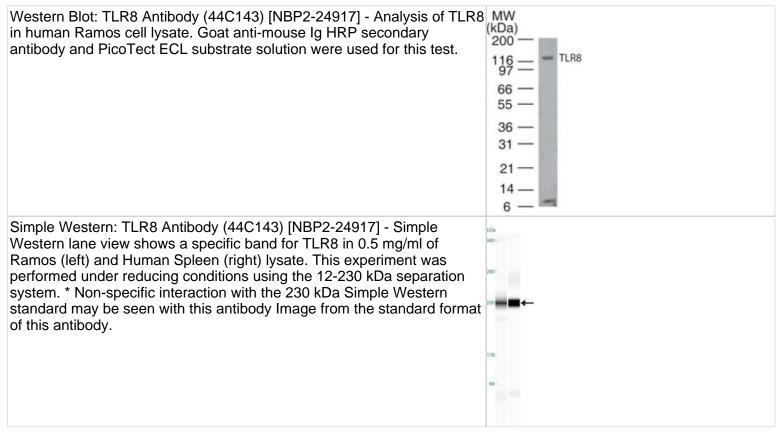
Inti-TLR8

TLR+RNA

0.439

3

anti-TLR8





#### **Publications**

Grant R. Campbell, Pratima Rawat, Stephen A. Spector Pacritinib Inhibition of IRAK1 Blocks Aberrant TLR8 Signalling by SARS-CoV-2 and HIV-1-Derived RNA Journal of Innate Immunity 2023-01-01 [PMID: 35785771]

Campbell GR, Rawat P, Teodorof-Diedrich C, Spector SA IRAK1 inhibition blocks the HIV-1 RNA mediated proinflammatory cytokine response from microglia The Journal of general virology 2023-05-01 [PMID: 37256770]

Helminen O, Huhta H, Lehenkari Petri P. Nucleic acid-sensing Toll-like receptors 3, 7 and 8 in esophageal epithelium, Barrett's esophagus, dysplasia and adenocarcinoma Oncoimmunology 2016-07-29 [PMID: 27467941]

de Barros De Luccia T, Ono E, Menon R et al. The effect of Gestational Diabetes Mellitus on the fetal compartment Journal of Reproductive Immunology 2021-03-01 [PMID: 33836321] (IHC-P, Human)

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)

Chatillon JF Direct Toll-Like Receptor 8 signaling increases the functional avidity of human CD8+ T lymphocytes generated for adoptive T cell therapy strategies Immun Inflamm Dis. 2015-03-01 [PMID: 25866635] (FLOW, Human)

Details:

Citation using the PE format of this antibody.

Menendez D, Snipe J, Marzec J et al. p53-responsive TLR8 SNP enhances human innate immune response to respiratory syncytial virus J. Clin. Invest. 2019-08-20 [PMID: 31430261] (FLOW)

Evankovich J, Lear T, Baldwin C et al. Toll-Like Receptor 8 Stability is Regulated by Ring Finger 216 in response to circulating MicroRNAs Am. J. Respir. Cell Mol. Biol. 2019-08-06 [PMID: 31385713]

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)

Deng G, Ge J, Liu C et al. Impaired expression and function of TLR8 in chronic HBV infection and its association with treatment responses during peg-IFN-a-2a antiviral therapy. Clin Res Hepatol Gastroenterol. [PMID: 28236535] (IF/IHC)

Details:

Citation using the PE form of this antibody.

Helminen O, Huhta H, Kauppila JH et al. Localization of nucleic acid-sensing toll-like receptors in human and mouse pancreas. APMIS. 2016-12-28 [PMID: 28028829] (IF/IHC, 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)

More publications at <u>http://www.novusbio.com/NBP2-24917</u>





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### Products Related to NBP2-24917

NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
	Mayon InCA Kanna lasting Control (D2 C 2 C 4)
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NBP2-26231-5mg	Imidazoquinoline Resiquimod (R-848), TLR7 and TLR8 ligand

#### Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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