

Product Datasheet

TLR9 Antibody **NBP2-24908**

Unit Size: 0.1 mg

Store at 4C in the dark.

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NBP2-24908

TLR9 Antibody (26C593.2) [FITC]

Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at 4C in the dark.
Clonality	Monoclonal
Clone	26C593.2
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Conjugate	FITC
Purity	Protein G purified
Buffer	50 mM Sodium Borate

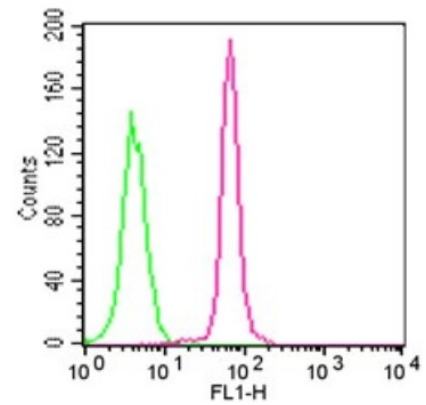
Product Description	
Host	Mouse
Gene ID	54106
Gene Symbol	TLR9
Species	Human, Mouse, Rat, Canine, Equine, Primate
Species Reactivity	This antibody is reactive to Dog, Horse, Human, Mouse, Rat and Rhesus Monkey.
Immunogen	This antibody was developed against KLH-conjugated synthetic peptide corresponding to amino acids 268-300 of human TLR9 isoform A (Genbank accession no. AAF78037).

Product Application Details	
Applications	Flow Cytometry, Immunocytochemistry/Immunofluorescence
Recommended Dilutions	Flow Cytometry 0.1-1 ug/10 ⁶ cells, Immunocytochemistry/Immunofluorescence 1:10-1:2000
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. In human PBMC, a ~120 kDa band is observed. A smaller isoform, TLR9 isoform B (Genbank accession no. AAF72190) containing 975 amino acids may also be observed in some cases.

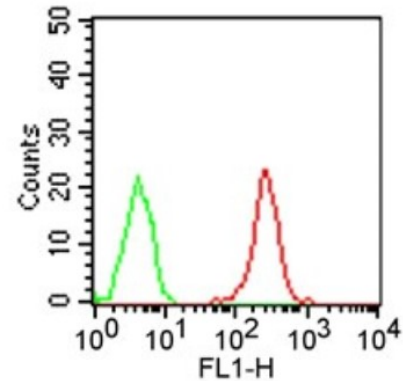


Images

Flow Cytometry: TLR9 Antibody (26C593.2) [FITC] [NBP2-24908] - Intracellular analysis of TLR9 in Ramos cells using 0.5 ug of this antibody. Green represents isotype control ; red represents anti-TLR9 antibody. TLR intracellular flow kit was used for this test.



Flow Cytometry: TLR9 Antibody (26C593.2) [FITC] [NBP2-24908] - Intracellular flow cytometric analysis of TLR9 in human B cells using $1\mu\text{g}/10^6$ cells of NBP2-24908. Cells were primarily stained with PE-conjugated CD19 antibody. Cells were then fixed and permeabilized and stained with $1\mu\text{g}$ of either isotype control antibody or NBP2-24908. Green represents isotype control; red represents anti-TLR9 antibody.



Publications

Abel K, Wang Y, Fritts L et al. Deoxycytidyl-deoxyguanosine oligonucleotide classes A, B, and C induce distinct cytokine gene expression patterns in rhesus monkey peripheral blood mononuclear cells and distinct alpha interferon responses in TLR9-expressing rhesus monkey plasmacytoid den Clin Diagn Lab Immunol. 2005 May [PMID: 15879022] (Flow-IC, Primate (Rhesus monkey))

Details:

IMG-305C [Flow (Intracellular), Fig. 5] on Rhesus monkey spleen cell suspensions and PBMC.

Mansson A, Adner M, Cardell LO. Toll-like receptors in cellular subsets of human tonsil T cells: altered expression during recurrent tonsillitis. Respir Res. 2006 Feb 27 [PMID: 16504163] (Flow-IC, Human)

Details:

Antibodies cited (human tonsils separated into cell subtypes): 1. TLR3 [IMG-315D (Flow-Intracellular), Figs 5 and 6]. 2. TLR5 [IMG-663A (Flow-Intracellular), Fig 6]. 3. TLR9 [IMG-305C (Flow-Intracellular), Fig 4.].

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. 2010 Mar [PMID: 19922426]

Jukkola-Vuorinen A, Rahko E, Vuopala KS et al. Toll-like receptor-9 expression is inversely correlated with estrogen receptor status in breast cancer. J Innate Immun. 2009 [PMID: 20375566]

Zhou M, McFarland-Mancini MM, Funk HM et al. Toll-like receptor expression in normal ovary and ovarian tumors. Cancer Immunol Immunother. 2009 Sep [PMID: 19184006]

Tran N, Koch A, Berkels R et al. Toll-like receptor 9 expression in murine and human adrenal glands and possible implications during inflammation. J Clin Endocrinol Metab. 2007 Jul [PMID: 17473064]

Details:

Antibodies cited (mouse spleen and adrenal tissue, mouse RAW264.7 macrophage cell line, human adrenal tissue: TLR9 [(IMG-305A) IHC (paraffin): Figs 1C-D, F and 6; IF/ICC: Figs 1E and 5]; TLR9 [(IMG-431) WB: Figs 1B, 3C, and 5G]. The TLR9 IMG-431 antibody w

Greene CM, Carroll TP, Smith SG et al. TLR-induced inflammation in cystic fibrosis and non-cystic fibrosis airway epithelial cells. J Immunol. 2005 Feb 1 [PMID: 15661927]

Details:

Antibodies cited: 1. TLR9 (IMG-305) [Confocal Microscopy, Fig.1A and 1B (CFTE29o- and 16HBE14o- cells)].

Booth JS, Arsenault R, Napper S et al. TLR9 signaling failure renders Peyer's patch regulatory B cells unresponsive to stimulation with CpG oligodeoxynucleotides. J Innate Immun. 2010 [PMID: 20551621]

Meneghin A, Choi ES, Evanoff HL et al. TLR9 is expressed in idiopathic interstitial pneumonia and its activation promotes in vitro myofibroblast differentiation. Histochem Cell Biol. 2008 Nov [PMID: 18633634]

Wang C, Cao S, Yan Y et al. TLR9 expression in glioma tissues correlated to glioma progression and the prognosis of GBM patients. BMC Cancer. 2010 Aug 10 [PMID: 20696081]

Siponen M, Kauppila JH, Soini Y, Salo T. TLR4 and TLR9 are induced in oral lichen planus. J Oral Pathol Med. 2012 Nov [PMID: 22672741]

Silver AC, Arjona A, Walker WE, Fikrig E. The circadian clock controls toll-like receptor 9-mediated innate and adaptive immunity. Immunity. 2012 Feb 24 [PMID: 22342842]

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Products Related to NBP2-24908

NBP1-42453	Rat anti-Mouse IgG1 Antibody (LO-MG1-2) [HRP]
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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.

For more information on our guarantee, please visit www.novusbio.com/guarantee.

