Product Datasheet

TLR7 Antibody [FITC]
NBP2-24777

Unit Size: 0.1 ml

Store at 4C in the dark.

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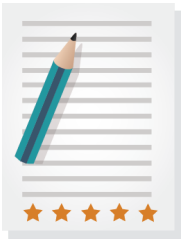


NBP2-24777

TLR7 Antibody [FITC]

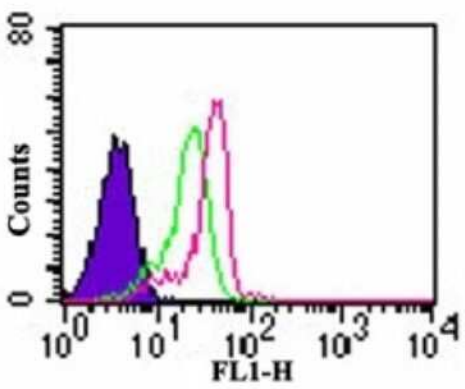
Product Information	
Unit Size	0.1 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C in the dark.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Conjugate	FITC
Purity	Protein G purified
Buffer	50mM Sodium Borate

Product Description	
Host	Rabbit
Gene ID	51284
Gene Symbol	TLR7
Species	Human, Mouse, Rat
Immunogen	This antibody was developed against KLH-conjugated synthetic peptide corresponding to amino acids 706-749 of human TLR7; GenBank no. gb|AAF78035.1|AF245702_1. It will cross-react with mouse TLR7. In human Ramos cells, additional bands are seen.

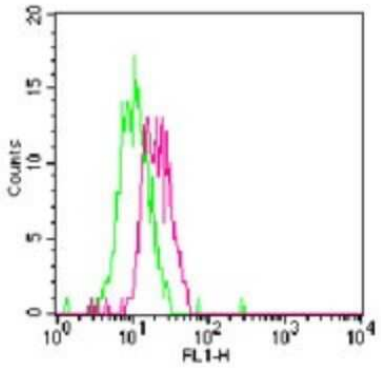
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation
Recommended Dilutions	Western Blot, Flow Cytometry 1ul/1 million cells, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation
Application Notes	Optimal dilution of this antibody should be experimentally determined.

Images

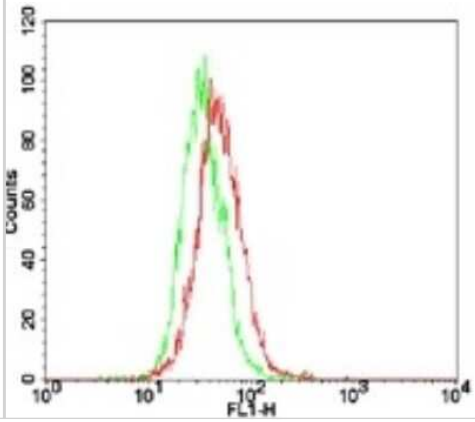
Flow Cytometry: TLR7 Antibody [FITC] [NBP2-24777] - Intracellular staining by analysis of TLR7 in human monocytes using this antibody at 0.5 ug/10^6 cells. Shaded histogram represents cells alone, green represents rabbit IgG isotype control, red represents anti-TLR7 antibody.



Flow Cytometry: TLR7 Antibody [FITC] [NBP2-24777] - Analysis of TLR7 in Balb/c mouse splenocytes using this antibody. Green represents rabbit IgG isotype control ; red represents anti-TLR7 antibody.



Flow Cytometry: TLR7 Antibody [FITC] [NBP2-24777] - Intracellular flow analysis of TLR7 in TLR7/HEK 293 cells using NBP2-24777 at 1 ug/10^6 cells. Green represents Vector/HEK 293 cells; red represents TLR7/HEK 293 .



Publications

Saito K, Kukita K, Kutomi G et al. Heat shock protein 90 associates with Toll-like receptors 7/9 and mediates self-nucleic acid recognition in SLE Eur J Immunol 2015-04-13 [PMID: 25871979] (ICC/IF, Mouse)

Details:
This citation used the FITC version of this antibody.

Takaki H, Takeda M, Tahara M et al. The MyD88 pathway in plasmacytoid and CD4+ dendritic cells primarily triggers type I IFN production against measles virus in a Mouse infection model J Immunol 2013-11-01 [PMID: 24078691] (FLOW, Mouse)

Details:
This citation used the FITC version of this antibody.

Barajon I, Serrao G, Arnaboldi F et al. Toll-like receptors 3, 4, and 7 are expressed in the enteric nervous system and dorsal root ganglia. J Histochem Cytochem. 2009-11-01 [PMID: 19546475] (Human)

Details:
TLR7 (IMG-581A). IHC (paraffin): Submucous plexus of murine intestine (Fig 1), murine small bowel (Fig 3), and myenteric plexus from human intestine (Fig 4). IF/ICC: Murine myenteric plexus, Fig 2.

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.

Pawar RD, Patole PS, Zecher D et al. Toll-like receptor-7 modulates immune complex glomerulonephritis. J Am Soc Nephrol. 2006-01-01 [PMID: 16280469]

Details:
Antibodies cited: 1. TLR3 (IMG-516) 2. TLR7 (IMG-581) [Flow (intracellular and cell surface), Fig.3: TLR3 (mesengial cells and J774 macrophages), TLR7 (J774 macrophages)]. [IHC-F, Fig.2 (kidneys of MRL1pr/1pr mice)].

Xirakia C, Koltsida O, Stavropoulos A et al. Toll-like receptor 7-triggered immune response in the lung mediates acute and long-lasting suppression of experimental asthma. Am J Respir Crit Care Med. 2010-06-01 [PMID: 20224068] (ICC/IF, Mouse)

Details:
TLR7 (IMG-581A) IF/ICC, Fig E2, mouse lung epithelial cells.

Hart OM, Athie-Morales V, O'Connor GM, Gardiner CM. TLR7/8-mediated activation of human NK cells results in accessory cell-dependent IFN-gamma production. J Immunol. 2005-08-01 [PMID: 16034103] (WB)

Details:
Antibodies cited: 1. TLR7 [(IMG-581A) WB, Fig. 1: TLR7 transfected cells and NKL human leukemia cell line. The specificity of the TLR7 antibody has been validated by WB using overexpressed TLR7 in 293T cells in Fig. 1.]. 2. TLR8 [(IMG-321A) WB, Fig. 1: TL

Brinkmann MM, Spooner E, Hoebe K et al. The interaction between the ER membrane protein UNC93B and TLR3, 7, and 9 is crucial for TLR signaling. J Cell Biol. 2007-04-23 [PMID: 17452530] (IP, Mouse)

Details:
IMG-581A (TLR7): IP (mouse bone marrow-derived dendritic cells), Fig. 6A,B,C.

Clancy RM, Alvarez D, Komissarova E et al. Ro60-associated single-stranded RNA links inflammation with fetal cardiac fibrosis via ligation of TLRs: a novel pathway to autoimmune-associated heart block. J Immunol. 2010-02-15 [PMID: 20089705]

Details:
Antibodies cited: 1. TLR-7 (IMG-665A): Primary human macrophages derived from PBMCs, Flow (Intracellular): Fig 1A 2. TLR-8 FITC (IMG-321C): Primary human macrophages derived from PBMCs Flow (Intracellular): Fig 1A 3. TLR-7 (IMG-581A): Fetal cardiac fibrob

Palladino M A, Johnson T A, Gupta R et al. Members of the Toll-like receptor family of innate immunity pattern-recognition receptors are abundant in the male rat reproductive tract. Biol Reprod. 2007-06-01 [PMID: 17314314]

Francois S et al. Inhibition of neutrophil apoptosis by TLR agonists in whole blood: involvement of the phosphoinositide 3-kinase/Akt and NF-kappaB signaling pathways, leading to increased levels of Mcl-1, A1, and phosphorylated Bad J Immunol [PMID: 15749901] (WB, Human)

Details:
Used the FITC form of this antibody.

Harman AN, Bye CR, Nasr N et al. Identification of lineage relationships and novel markers of blood and skin human dendritic cells. J Immunol. 2013-01-01 [PMID: 23183897]

Details:
Antibodies cited in Fig 4B for flow cytometric analysis of TLR expression in human monocyte-derived dendritic cells (MDDC), CD14+ monocytes, myeloid DC, and plasmacytoid DC:1. TLR2-FITC, clone T2.1 (IMG-416C): Flow (cell surface)2. TLR4-PE, clone HTA124 (

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NBP2-24906PEP	TLR7 Antibody Blocking Peptide
210-TA-005	TNF-alpha [Unconjugated]

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