

Product Datasheet

TLR7 Antibody [FITC] NBP2-24760

Unit Size: 0.1 ml

Store at 4C in the dark.

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NBP2-24760

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
Reactivity Notes	72% sequence identity with rat protein.
Immunogen	This antibody was developed against KLH-conjugated synthetic peptide corresponding to a portion of amino acids 684-701 of human TLR7 (NP_057646).

Product Application Details	
Applications	Flow Cytometry, Immunohistochemistry, Immunohistochemistry-Frozen
Recommended Dilutions	Flow Cytometry 1ul/1 million cells, Immunohistochemistry, Immunohistochemistry-Frozen
Application Notes	Use in Immunohistochemistry-Frozen reported in scientific literature (PMID: 16093456).

Publications

Dembny P, Newman AG, Singh M et al. Human endogenous retrovirus HERV-K(HML-2) RNA causes neurodegeneration through Toll-like receptors JCI Insight 2020-04-09 [PMID: 32271161]

Zhou M, McFarland-Mancini MM, Funk HM et al. Toll-like receptor expression in normal ovary and ovarian tumors. Cancer Immunol Immunother. 2009-09-01 [PMID: 19184006]

Cohen PA, Koski GK, Czerniecki BJ et al. STAT3- and STAT5-dependent pathways competitively regulate the pan-differentiation of CD34pos cells into tumor-competent dendritic cells. Blood. 2008-09-01 [PMID: 18577706]

Details:

Flow (intracellular), mouse bone marrow cells, Fig. 1E: 1. TLR3 FITC (IMG-315C) 2. TLR4 FITC (IMG-417C) 3. TLR7 (IMG-665A) 4. TLR8 FITC (IMG-321C) 5. TLR9 FITC (IMG-305C).

Mansson A, Cardell LO. Role of atopic status in Toll-like receptor (TLR)7- and TLR9-mediated activation of human eosinophils. J Leukoc Biol. 2009-04-01 [PMID: 19129482] (Human)

Details:

1. IMG-665F (TLR7-Atto 488) [replaced by IMG-665C (TLR7-FITC)]: Flow (intracellular), human eosinophils, Fig. 1B.



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

van den Brand JM, Haagmans BL, Leijten L et al. Pathology of experimental SARS coronavirus infection in cats and ferrets. *Vet Pathol*. 2008-07-01 [PMID: 18587105]

Details:

IF/ICC (SARS infected ferret and cat). STAT3 and STAT5-dependent pathways competitively regulate the pan-differentiation of DC34pos cells into tumor-competent dendritic cells. Cohen P, Koski G, Czerniecki B, Bunting K, Fu X, Wang Z, Zhang W, Carter C, Awa

Chamberlain ND, Kim SJ, Vila OM et al. Ligation of TLR7 by rheumatoid arthritis synovial fluid single strand RNA induces transcription of TNF-alpha in monocytes. *Ann Rheum Dis*. 2013-03-01 [PMID: 22730373]

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]

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).

Chen YW, Nagaraju K, Bakay M et al. Early onset of inflammation and later involvement of TGFbeta in Duchenne muscular dystrophy. *Neurology*. 2005-09-27 [PMID: 16093456] (IHC-Fr)

Details:

Antibodies cited: 1. TLR7 (IMG-665) [IHC-F, Fig.3 (DMD muscle fibers)].

Schwab N, Zozulya AL, Kieseier BC et al. An imbalance of two functionally and phenotypically different subsets of plasmacytoid dendritic cells characterizes the dysfunctional immune regulation in multiple sclerosis. *J Immunol*. 2010-05-01 [PMID: 20357264]

Details:

TLR8 (IMG-321A): Flow (intracellular), human pDC's, Fig 1.

Lee J, Wu CC, Lee KJ et al. Activation of anti-hepatitis C virus responses via Toll-like receptor 7. *Proc Natl Acad Sci U S A*. 2006-02-07 [PMID: 16446426]



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