

Product Datasheet

TLR7 Antibody [PE] NBP2-24761

Unit Size: 0.1 ml

Store at 4C in the dark.

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NBP2-24761

TLR7 Antibody [PE]

| 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 | PE |
| Purity | Protein G purified |
| Buffer | PBS |

| 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, Flow (Intracellular), Immunohistochemistry, Immunohistochemistry-Frozen |
| Recommended Dilutions | Flow Cytometry 1ul/1 million cells, Immunohistochemistry, Immunohistochemistry-Frozen, Flow (Intracellular) |
| Application Notes | Use in Immunohistochemistry-Frozen reported in scientific literature (PMID: 16093456). Use in Flow-intracellular reported in scientific literature (PMID: 22730373). |

Publications

Zimmermann M, Aguilera FB, Castellucci M et al. Chromatin remodelling and autocrine TNFalpha are required for optimal interleukin-6 expression in activated human neutrophils. *Nat Commun.* [PMID: 25616107] (FLOW, Human)

Details:

Citation using the PE form of this antibody.

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-FTIC)]: 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] (Flow Cytometry Control, Human)

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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