

Product Datasheet

TLR4 Antibody (HTA125) [Alexa Fluor® 488] NBP2-24897

Unit Size: 0.1 ml

Store at 4C in the dark.

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NBP2-24897

TLR4 Antibody (HTA125) [Alexa Fluor® 488]

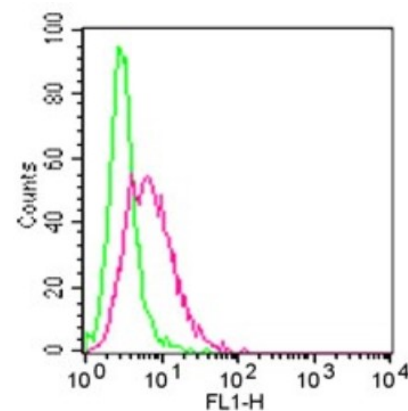
Product Information	
Unit Size	0.1 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C in the dark.
Clonality	Monoclonal
Clone	HTA125
Preservative	0.05% Sodium Azide
Isotype	IgG2a
Conjugate	Alexa Fluor 488
Purity	Protein G purified
Buffer	50mM Sodium Borate
Product Description	
Host	Mouse
Gene ID	7099
Gene Symbol	TLR4
Species	Human, Canine
Reactivity Notes	Cross reacts with Human and Dog.
Specificity/Sensitivity	The has been shown to block the activation of monocytes with LPS (Paik, et al, 2003).
Immunogen	This antibody was developed by immunizing mice with Ba/F3 cell line expressing human TLR4 cell surface antigen.

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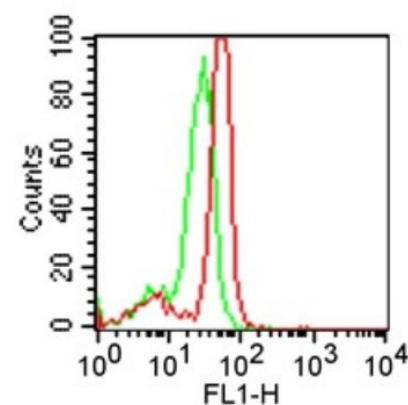
Product Application Details	
Applications	Flow Cytometry, Immunocytochemistry/Immunofluorescence, Western Blot (Negative)
Recommended Dilutions	Flow Cytometry 1ul/1 million cells, Immunocytochemistry/Immunofluorescence 1:10-1:2000, Western Blot (Negative)
Application Notes	Confocal Microscopy: see Scheel et al. (2006) for details FA (Neutralization): please Basek et al, 2005 for details. Flow (Cell Surface): 2-5 ug/ 1x10 ⁶ cells IF/ICC: please see Schneeman et al (2005) for details. IP: please see Shimazu et al, 1999 for details

Images

Flow Cytometry: TLR4 Antibody (HTA125) [Alexa Fluor (R) 488] [NBP2-24897] - Cell surface flow analysis of TLR4 in stable HEK293/hTLR4 cells using this antibody at 1ug/10⁶ cells. Green represents HEK293/Vector cells; red represents HEK293/hTLR4 cells.



Flow Cytometry: TLR4 Antibody (HTA125) [Alexa Fluor (R) 488] [NBP2-24897] - Cell surface analysis of TLR4 on PBMC using this antibody at 1 ug/10⁶ cells. Green represents isotype control this antibody; red represents anti-TLR4 antibody.



Publications

Zanoni G, Navone R, Lunardi C et al. In celiac disease, a subset of autoantibodies against transglutaminase binds toll-like receptor 4 and induces activation of monocytes. *PLoS Med.* 2006 Sep [PMID: 16984219]

Cognasse F, Hamzeh H, Chavarin P et al. Evidence of Toll-like receptor molecules on human platelets. *Immunol Cell Biol.* 2005 Apr [PMID: 15748217]

Details:

TLR2-PE (IMG-416D), TLR4-PE (IMG-417D), TLR6 (IMG-304A), TLR8-PE (IMG-321D), TLR9-PE (IMG-305D). Applications: Intracellular Flow Cytometry and Cell Surface Flow Cytometry: Figs 1 and 2. A comparison of staining results, intracellular versus cell surface flow cytometry is shown. Cell type: Human platelets.

Mempel M, Voelcker V, Kollisch G et al. Toll-like receptor expression in human keratinocytes: nuclear factor kappaB controlled gene activation by *Staphylococcus aureus* is toll-like receptor 2 but not toll-like receptor 4 or platelet activating factor receptor dependent. *J Invest Dermatol.* 2003 Dec [PMID: 14675188] (ICC/IF, Human)

Details:

1. TLR2 (IMG-416) 2. TLR4 (IMG-417) [IF/ICC, Fig.2A and 2D (human keratinocytes)].

Pietschmann K, Beetz S, Welte S et al. Toll-like receptor expression and function in subsets of human gammadelta T lymphocytes. *Scand J Immunol.* 2009 Sep [PMID: 19703014]

Wu CY, Chi PL, Hsieh HL et al. TLR4-dependent induction of vascular adhesion molecule-1 in rheumatoid arthritis synovial fibroblasts: Roles of cytosolic phospholipase A(2)alpha/cyclooxygenase-2. *J Cell Physiol.* 2010 May [PMID: 20112284]

Prabha C, Rajashree P, Sulochana DD. TLR2 and TLR4 expression on the immune cells of tuberculous pleural fluid. *Immunol Lett.* 2008 Apr 15 [PMID: 18295348]

Details:

Antibodies cited: 1. TLR2- FITC (IMG-416C): Flow (cell surface): Figs. 1A,B (human CD4+T cells, CD8+T cells, B cells, CD16+56+ cells and monocytes); 2(CD4+T cells); 4A,B (human Treg cells). Flow (intracellular): Fig. 3A,B (CD4+T cells) 2. TLR4- FITC (IMG-

Matsunaga N, Tsuchimori N, Matsumoto T, li M. TAK-242 (resatorvid), a small-molecule inhibitor of Toll-like receptor (TLR) 4 signaling, binds selectively to TLR4 and interferes with interactions between TLR4 and its adaptor molecules. *Mol Pharmacol.* 2011 Jan [PMID: 20881006]

Hammadi A, Billard C, Faussat AM, Kolb JP. Stimulation of iNOS expression and apoptosis resistance in B-cell chronic lymphocytic leukemia (B-CLL) cells through engagement of Toll-like receptor 7 (TLR-7) and NF-kappaB activation. *Nitric Oxide.* 2008 Sep [PMID: 18474259]

Shahrara S, Park CC, Temkin V et al. RANTES modulates TLR4-induced cytokine secretion in human peripheral blood monocytes. *J Immunol.* 2006 Oct 15 [PMID: 17015691] (Flow-CS)

Details:

Antibodies cited: 1. TLR4 (IMG-417A): Flow (Cell Surface) [PB monocytes], Fig. 2C.

Yang X, Fullerton DA, Su X et al. Pro-osteogenic phenotype of human aortic valve interstitial cells is associated with higher levels of Toll-like receptors 2 and 4 and enhanced expression of bone morphogenetic protein 2. *J Am Coll Cardiol.* 2009 Feb 10 [PMID: 19195606]

Wong CK, Cheung PF, Ip WK, Lam CW. Intracellular signaling mechanisms regulating toll-like receptor-mediated activation of eosinophils. *Am J Respir Cell Mol Biol.* 2007 Jul [PMID: 17332440]

Details:

Antibodies cited (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 (IM

Murciano C, Villamon E, Yanez A et al. In vitro response to *Candida albicans* in cultures of whole human blood from young and aged donors. *FEMS Immunol Med Microbiol.* 2007 Nov [PMID: 17714490]

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Products Related to NBP2-24897

NBP2-25295-1.0mg	LPS from E. Coli, TLR4 ligand
NBP2-26244	TLR4 Inhibitor Peptide Set
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NB100-56059	TLR4 Antibody (HTA125) [FITC]

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