

Product Datasheet

TLR4 Antibody (HTA125) [Biotin] NBP2-24744

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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NBP2-24744

TLR4 Antibody (HTA125) [Biotin]

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. Do not freeze.
Clonality	Monoclonal
Clone	HTA125
Preservative	0.05% Sodium Azide
Isotype	IgG2a
Conjugate	Biotin
Purity	Protein G purified
Buffer	PBS
Target Molecular Weight	95.7 kDa

Product Description	
Host	Mouse
Gene ID	7099
Gene Symbol	TLR4
Species	Human, Mouse, Canine
Specificity/Sensitivity	The antibody has been shown to block the activation of monocytes with LPS (Paik, et al, 2003).
Immunogen	This TLR4 Antibody (HTA125) was developed by immunizing mice with Ba/F3 cell line expressing human TLR4 cell surface antigen.

Product Application Details	
Applications	ELISA, Flow Cytometry, Flow (Cell Surface), Immunocytochemistry/Immunofluorescence, Immunoprecipitation, Block/Neutralize, Western Blot (Negative)
Recommended Dilutions	Flow Cytometry 1 uL /1 million cells, ELISA 1 ug/mL, Immunocytochemistry/Immunofluorescence 1:10 - 1:2000, Immunoprecipitation 1:10 - 1:500, Flow (Cell Surface), Western Blot (Negative), Block/Neutralize
Application Notes	Optimal dilution of this antibody should be experimentally determined.

Publications

Scheel O, Papavlassopoulos M, Blunck R et al. Cell activation by ligands of the toll-like receptor and interleukin-1 receptor family depends on the function of the large-conductance potassium channel MaxiK in human macrophages. Infect Immun. 2006-07-01 [PMID: 16790810] (ICC/IF)

Details:
TLR4 (IMG-417A) [IF/ICC, Fig.3 (HEK293-TLR4/MD2-MaxiKGFP cells)].

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. 2003-12-01 [PMID: 14675188] (ICC/IF, Human)

Details:
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*. 2009-09-01 [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*. 2010-05-01 [PMID: 20112284]

Prabha C, Rajashree P, Sulochana DD. TLR2 and TLR4 expression on the immune cells of tuberculous pleural fluid. *Immunol Lett*. 2008-04-15 [PMID: 18295348]

Details:

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-417C).Flow (cell surface): Figs. 1B, C (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).

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*. 2011-01-01 [PMID: 20881006]

Hammadi A, Billard C, Faussat AM et al. 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*. 2008-09-01 [PMID: 18474259]

Shahrara S, Park CC, Temkin V et al. RANTES modulates TLR4-induced cytokine secretion in human peripheral blood monocytes. *J Immunol*. 2006-10-15 [PMID: 17015691] (Flow-CS)

Details:

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*. 2009-02-10 [PMID: 19195606]

Details:

Citation using the Azide Free version of this antibody.

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).

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*. 2007-11-01 [PMID: 17714490]

Details:

The following antibodies were used in flow (cell surface) cytometry: TLR2/CD282 FITC (IMG-416C), TLR4 FITC (IMG-417C), TLR6/CD286 FITC (IMG-304C). Human whole blood from both young and elderly volunteers, Fig 1. Note: The fluorescence mean intensity was m

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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NBP2-29370	Streptavidin Native Protein
NBP2-25295-1.0mg	LPS from E. Coli, TLR4 ligand
NBP2-26244	TLR4 Inhibitor Peptide Set
IC003B	Mouse IgG2a Isotype Control (20102) [Biotin]

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