

# Product Datasheet

## TLR4 Antibody (HTA125) [PE] NB100-56062

Unit Size: 0.1 ml

Store at 4C in the dark.

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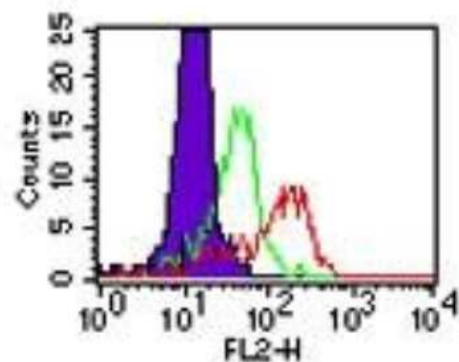
**NB100-56062**

TLR4 Antibody (HTA125) [PE]

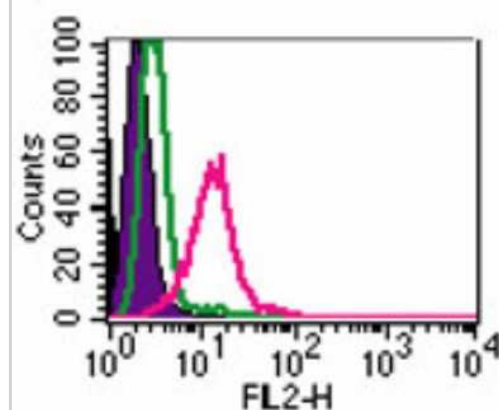
<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Please see the vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at 4C in the dark.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	HTA125
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG2a
<b>Conjugate</b>	PE
<b>Purity</b>	Protein G purified
<b>Buffer</b>	PBS
<b>Target Molecular Weight</b>	95.7 kDa
<b>Product Description</b>	
<b>Host</b>	Mouse
<b>Gene ID</b>	7099
<b>Gene Symbol</b>	TLR4
<b>Species</b>	Human, Mouse, Canine
<b>Specificity/Sensitivity</b>	NB600-662 recognizes the human Toll like receptor 4 (TLR4) cell surface antigen. TLR4, also known as CD284, has been demonstrated to act as a receptor for LPS on human monocytes and macrophages. TLR4 signalling of LPS stimulation requires the presence of the MD-2 molecule. TLR4 is weakly expressed by resting cells, but is upregulated following stimulation with LPS. This antibody has been demonstrated to block activation of monocytes with LPS.
<b>Immunogen</b>	This TLR4 Antibody (HTA125) [FITC] was developed by immunizing mice with Ba/F3 cell line expressing human TLR4 cell surface antigen.
<b>Product Application Details</b>	
<b>Applications</b>	Flow Cytometry, Flow (Cell Surface), Flow (Intracellular), Immunocytochemistry/Immunofluorescence, Western Blot (Negative)
<b>Recommended Dilutions</b>	Flow Cytometry 1 uL / 1 million cells, Immunocytochemistry/Immunofluorescence, Flow (Cell Surface), Flow (Intracellular), Western Blot (Negative)
<b>Application Notes</b>	Optimal dilution of this antibody should be experimentally determined.

## Images

Flow Cytometry: TLR4 Antibody (HTA125) [PE] [NB100-56062] - Intracellular flow analysis of TLR4 in human PBMCs using NB100-56062 at 0.5 ug/10<sup>6</sup> cells. The shaded histogram represents cells without anti-TLR4 antibody; green represents the isotype control; red represents Nb100-56062, anti-TLR4.



Flow Cytometry: TLR4 Antibody (HTA125) [PE] [NB100-56062] - Cell surface analysis of TLR4 on ThP1 cells using TLR4 antibody at 2 ug/10<sup>6</sup> cells. The shaded histogram represents ThP1 cells only, green represents isotype control antibody, and red represents TLR4 antibody.



## Publications

Moreira ML, Costa-Pereira C, Alves MLR. Vaccination against canine leishmaniosis increases the phagocytic activity, nitric oxide production and expression of cell activation/migration molecules in neutrophils and monocytes. *Veterinary Parasitology* [PMID: 26995719] (FLOW, Canine)

Details:

Used the PE form of this antibody.

Komine-Aizawa S, Hirohata N, Aizawa S, Abiko Y Porphyromonas gingivalis lipopolysaccharide inhibits trophoblast invasion in the presence of nicotine. *Placenta*. 2015-01-01 [PMID: 25468545] (FLOW, Human)

Details:

Citation using the PE version of this antibody.

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* 2006-09-01 [PMID: 16984219]

Cognasse F, Hamzeh H, Chavarin P et al. Evidence of Toll-like receptor molecules on human platelets. *Immunol Cell Biol*. 2005-04-01 [PMID: 15748217] (Flow-CS, Flow Cytometry Control, Human)

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*. 2003-12-01 [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.

More publications at <http://www.novusbio.com/NB100-56062>



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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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