

Product Datasheet

TLR4 Antibody NB100-55951

Unit Size: 0.1 mg

Store at 4C in the dark.

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NB100-55951

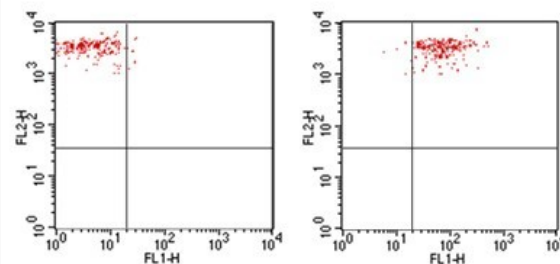
TLR4 Antibody (76B357.1) [FITC]

Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at 4C in the dark.
Clonality	Monoclonal
Clone	76B357.1
Preservative	0.05% Sodium Azide
Isotype	IgG2b Kappa
Conjugate	FITC
Purity	Protein G purified
Buffer	10 mM Tris, 150 mM NaCl, containing 0.05% BSA
Product Description	
Host	Mouse
Gene ID	7099
Gene Symbol	TLR4
Species	Human, Mouse, Rat, Mammal, Squirrel
Species Reactivity	Human, Mouse, Rat. Ground squirrel reactivity reported by a customer review. Predicted cross-reactivity based on sequence identity: Chimp (100%), Baboon (100%), Chinese Hamster (100%), Bovine (93%), Pig (93%). Mammal reactivity reported in scientific literature (PMID: 25130694)
Specificity/Sensitivity	The amino acid sequence used has 100% identity in human, chimp, baboon, chinese hamster, and rat; 93% identity in bovine and pig; 85% identity in sheep and 78% identity in cat, horse and mouse.
Immunogen	This antibody was developed against a portion of amino acids 100-200 of human TLR4 (NP_612564).
Product Application Details	
Applications	Flow Cytometry, Flow (Cell Surface)
Recommended Dilutions	Flow (Cell Surface), Flow Cytometry 2-5 ug/10 ⁶ cells
Application Notes	Flow (Intracellular) use reported in literature (See Cohen et al, 2008); Immunofluorescence (See Nowicki et al, 2009); IHC-F (Nowicki et al, 2012); Flow (cell surface) use reported in scientific literature (PMID 23796194) Use in Flow cell surface reported in scientific literature (PMID 24836676)

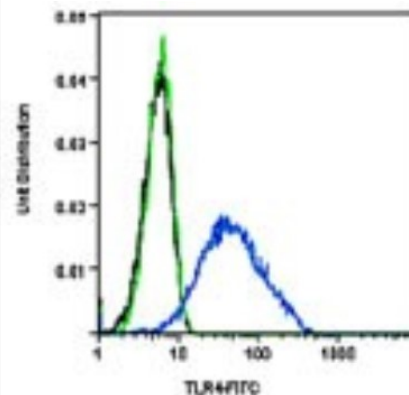


Images

Flow Cytometry: TLR4 Antibody (76B357.1) [FITC] [NB100-55951] - TLR4 expression on monocytes from human peripheral blood: PBMC were stained, in a 2 color flow test, with CD14 PE and 1 ug of either isotype control (Left,) or TLR4-FITC (Right, this antibody. PPI negative, CD14+ cells were gated for analysis.



Flow Cytometry: TLR4 Antibody (76B357.1) [FITC] [NB100-55951] - Analysis of cell surface TLR4 in human monocyte-derived dendritic cells using this antibody at 1:200 (2.5 ug). Black and green open histograms represent unstained cells and negative control (anti-human CD14 FITC, respectively). Blue open histogram is NB100-55951 anti-TLR4 stained Dendritic cells. Data courtesy Anna Manlapat, National Institutes of Health.



Publications

Green TL, Santos MF, Ejaeidi AA et al. Toll-like receptor (TLR) expression of immune system cells from metastatic breast cancer patients with circulating tumor cells. *Exp. Mol. Pathol.* 2014 May 14 [PMID: 24836676] (Flow-CS, Human)

Details:

Human peripheral whole blood ((subjected to red cell lysis): Figs 1, 2 & Tables 2,3.

Nowicki M, Kosacka J, Serke H et al. Altered sciatic nerve fiber morphology and endoneural microvessels in mouse models relevant for obesity, peripheral diabetic polyneuropathy, and the metabolic syndrome. *J Neurosci Res.* 2012 Jan [PMID: 21919033]

Brandau S, Jakob M, Hemeda H et al. Tissue-resident mesenchymal stem cells attract peripheral blood neutrophils and enhance their inflammatory activity in response to microbial challenge. *J Leukoc Biol.* 2010 Nov [PMID: 20682625]

Semar S, Klotz M, Letiembre M et al. Changes of the enteric nervous system in amyloid-B protein precursor transgenic mice correlate with disease progression. *J Alzheimers Dis.* 2013 Jan 1 [PMID: 23531500]

Wu J, Meng Z, Jiang M et al. Toll-like receptor-induced innate immune responses in non-parenchymal liver cells are cell type-specific. *Immunology.* 2010 Mar [PMID: 19922426]

Hsiao CC, Kao YH, Huang SC, Chuang JH. Toll-like receptor-4 agonist inhibits motility and invasion of hepatoblastoma HepG2 cells in vitro. *Pediatr Blood Cancer.* 2013 Feb [PMID: 22648929]

Allam JP, Peng WM, Appel T et al. Toll-like receptor 4 ligation enforces tolerogenic properties of oral mucosal Langerhans cells. *J Allergy Clin Immunol.* 2008 Feb [PMID: 18036651]

Hafez M, Hayes K, Goldrick M et al. The K5 capsule of Escherichia coli strain Nissle 1917 is important in stimulating expression of Toll-like receptor 5, CD14, MyD88, and TRIF together with the induction of interleukin-8 expression via the mitogen-activated protein kinase pathway in epithelial cells. *Infect Immun.* 2010 May [PMID: 20145095]

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 Sep 1 [PMID: 18577706]

Link A, Selejan S, Maack C et al. Phosphodiesterase 4 inhibition but not beta-adrenergic stimulation suppresses tumor necrosis factor-alpha release in peripheral blood mononuclear cells in septic shock. *Crit Care.* 2008 [PMID: 19091080]

Liu Y, Fatheree NY, Mangalat N, Rhoads JM. Lactobacillus reuteri strains reduce incidence and severity of experimental necrotizing enterocolitis via modulation of TLR4 and NF-kB signaling in the intestine. *Am J Physiol Gastrointest Liver Physiol.* 2012 Mar 15 [PMID: 22207578]

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]

Details:

Antibodies cited: IMG-5031A (clone 76B357.1), WB: Fig 3B, Lane 1 (293T), Lane 2 [human TLR4 transfected 293T (TLR4-293T)], Lane 4 (TLR4-293T probed with biotinylated IMG-5031A), Lane 5 (TLR4-293T probed with biotinylated IMG-5031A after TLR4 depletion wit

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Products Related to NB100-55951

NBP2-27229	Mouse IgG2b Isotype Control (MPC-11) [FITC]
NBP2-27149PE	TLR4 Antibody (76B357.1) [PE]
NBP2-24821PEP	TLR4 Peptide
NBP2-29328	MyD88 Inhibitor Peptide Set

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.

For more information on our guarantee, please visit www.novusbio.com/guarantee.

