

Product Datasheet

TLR4 Antibody (76B357.1) [Alexa Fluor® 647] NBP2-24773

Unit Size: 0.1 ml

Store at 4C in the dark.

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NBP2-24773

TLR4 Antibody (76B357.1) [Alexa Fluor® 647]

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	76B357.1
Preservative	0.05% Sodium Azide
Isotype	IgG2b Kappa
Conjugate	Alexa Fluor 647
Purity	Protein G purified
Buffer	50mM Sodium Borate

Product Description	
Host	Mouse
Gene ID	7099
Gene Symbol	TLR4
Species	Human, Mouse, Rat, Porcine, Bovine, Mammal
Reactivity Notes	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).
Notes	Alexa Fluor (R) products are provided under an intellectual property license from Life Technologies Corporation. The purchase of this product conveys to the buyer the non-transferable right to use the purchased product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components, or any materials made using the product or its components, in any activity to generate revenue, which may include, but is not limited to use of the product or its components: (i) in manufacturing; (ii) to provide a service, information, or data in return for payment; (iii) for therapeutic, diagnostic or prophylactic purposes; or (iv) for resale, regardless of whether they are resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad, CA 92008 USA or outlicensing@lifetech.com . This conjugate is made on demand. Actual recovery may vary from the stated volume of this product. The volume will be greater than or equal to the unit size stated on the datasheet.

Product Application Details	
Applications	Flow Cytometry, In vivo assay



Recommended Dilutions	Flow Cytometry 1ul/1 million cells, In vivo assay
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 In vivo reported in scientific literature (PMID:33498871)

Publications

Muñoz-Caro T, Gibson AJ, Conejeros I, et al. The Role of TLR2 and TLR4 in Recognition and Uptake of the Apicomplexan Parasite *Eimeria bovis* and Their Effects on NET Formation Pathogens (Basel, Switzerland) 2021-01-24 [PMID: 33498871] (In Vivo, Mouse)

Verma R, Jung JH, Kim JY 1,25-Dihydroxyvitamin D3 up-regulates TLR10 while down-regulating TLR2, 4, and 5 in human monocyte THP-1. *J Steroid Biochem Mol Biol.* 2014-05-01 [PMID: 24373795] (Human)

Details:

Citation using the PE version of this antibody.

Lacave-Lapalun JV, Benderitter M, Linard C Flagellin and LPS each restores rat lymphocyte populations after colorectal irradiation *J Leukoc Biol.* 2014-06-01 [PMID: 24532644] (Flow-CS, Rat)

Details:

Citation using the Azide Free format of this antibody.

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.* [PMID: 19922426]

Details:

Citation using the PE/Cy5 form of this antibody.

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.* 2013-02-01 [PMID: 22648929]

Details:

TLR4/CD284 (IMG-5031A). IHC (P): Fig 1 (human hepatoblastoma). TLR4 staining was membranous, cytoplasmic and nuclear. TLR4 staining was greatly reduced in liver tissues obtained after chemotherapy treatment.

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.* 2008-02-01 [PMID: 18036651]

Details:

Flow (cell surface): Oral mucosa from the vestibular region were obtained from non-tumor and noninflamed human patients, Fig 1C.

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).

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- κ B signaling in the intestine. *Am J Physiol Gastrointest Liver Physiol.* 2012-03-15 [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* 2006-09-01 [PMID: 16984219]



Weile C, Josefsen K, Buschard K. Glucose activation of islets of Langerhans up-regulates Toll-like receptor 5: possible mechanism of protection. Clin Exp Immunol. 2011-11-01 [PMID: 21985371]

Details:

TLR4/CD284 (IMG-5031A) and GAPDH (IMG-3073). WB: Cultured rat islet Langerhans treated with glucose, Fig 1B. Note: TLR4 protein levels were not increased in the presence of glucose activation, Fig 1B.

Janardhanam SB, Prakasam S, Swaminathan VT et al. Differential expression of TLR-2 and TLR-4 in the epithelial cells in oral lichen planus. Arch Oral Biol. 2012-05-01 [PMID: 22119043]

Details:

IHC (P) of human oral epithelium (Fig 1): 1. TLR2 (IMG-319) 2. TLR4 (IMG-5031A) Note: Both antibodies were used at 0.5/ml. Cutaneous epithelium was used as a positive control for TLR2 and TLR4 expression.

Jazaeri F, Tavangar SM, Ghazi-Khansari M et al. Cirrhosis is associated with development of tolerance to cardiac chronotropic effect of endotoxin in rats. Liver Int. 2013-03-01 [PMID: 23311391]

Details:

IMG-5031A (clone 76B357.1), IHC (P): Fig 3 (rat atrial tissue). TLR4 staining was observed in myocytes and endothelial cells. LPS upregulated TLR4 expression. Human breast tissue was used as positive control.

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Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-
techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

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