

Product Datasheet

TLR9 Antibody (26C593.2) [PE] NBP2-24907

Unit Size: 0.1 ml

Store at 4C in the dark.

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NBP2-24907

TLR9 Antibody (26C593.2) [PE]

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	26C593.2
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Conjugate	PE
Purity	Protein G purified
Buffer	PBS

Product Description	
Host	Mouse
Gene ID	54106
Gene Symbol	TLR9
Species	Human, Mouse, Rat, Canine, Equine, Monkey, Primate
Reactivity Notes	Rhesus Monkey.
Immunogen	This antibody was developed against KLH-conjugated synthetic peptide corresponding to amino acids 268-300 of human TLR9 isoform A (Genbank accession no. AAF78037).

Product Application Details	
Applications	Western Blot, Flow Cytometry, Flow (Cell Surface), Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Knockdown Validated
Recommended Dilutions	Western Blot, Flow Cytometry 1ul/1 million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:10-1:2000, Immunohistochemistry-Paraffin, Flow (Cell Surface), Flow (Intracellular), Knockdown Validated
Application Notes	Optimal dilution of this antibody should be experimentally determined.

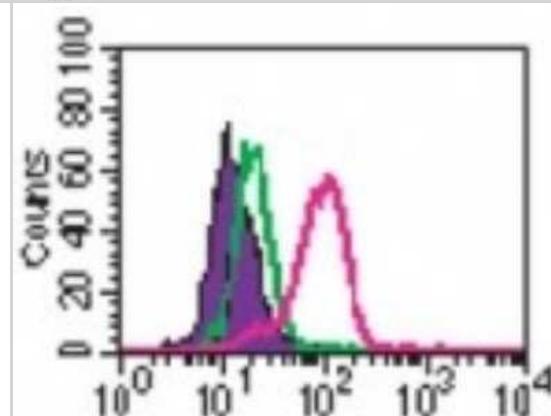


Images

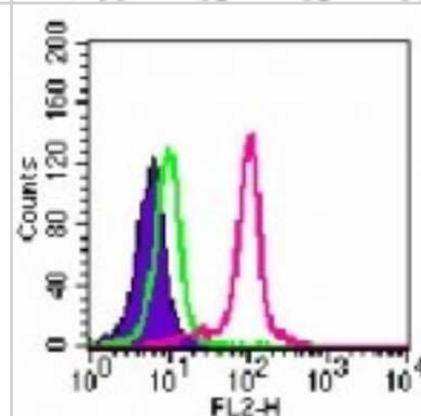
Flow Cytometry: TLR9 Antibody (26C593.2) [PE] [NBP2-24907] - Expression of TLR9 protein on epithelial cells. HNEC, Detroit-562 and FaDu were stained intracellularly with PE-Ab against TLR9 (open histograms) or appropriate isotype control (shaded histograms) and analyzed by flow cytometry. Representative pictures from one out of three independent experiments are shown. Image collected and cropped by CiteAb from the following publication ([//dx.plos.org/10.1371/journal.pone.0098239](https://doi.org/10.1371/journal.pone.0098239)), licensed under a CC-BY license.



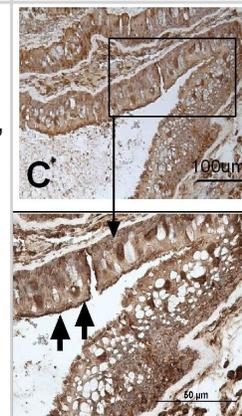
Flow Cytometry: TLR9 Antibody (26C593.2) [PE] [NBP2-24907] - Intracellular analysis of TLR9 in human PBMCs using 0.2 ug of this antibody. Shaded histogram represents cells without antibody; green represents a mouse IgG1-PE isotype control ; red represents anti-TLR9 antibody.



Flow Cytometry: TLR9 Antibody (26C593.2) [PE] [NBP2-24907] - Intracellular flow analysis of TLR9 in Ramos cells using 0.1 ug of antibody. Shaded histogram represents Ramos cells without antibody; green represents a mouse IgG1-PE isotype control red represents anti-TLR9 antibody.



Immunohistochemistry: TLR9 Antibody (26C593.2) [PE] [NBP2-24907] - The nasal epithelium expresses TLR3, TLR7, TLR9, RIG-I & MDA-5. Sections of nasal biopsies were incubated with antibodies against TLR3 (A), TLR7 (B), TLR9 (C), RIG-I (D), & MDA-5 (E) & visualized by 3, 3'-diaminobenzidine (brown). In control slides (F), N-series universal negative control reagent was used. All sections were accompanied with a square magnification. All slides were counterstained with haematoxylin (blue). The figure shows one representative biopsy out of four (3 male, 1 female). The arrows indicate positive stained cells. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/24886842>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



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.

Evangelista MG, Castro SB, Alves CC et al. Early IFN-gamma production together with decreased expression of TLR3 and TLR9 characterizes EAE development conditional on the presence of myelin. *Autoimmunity* [PMID: 26911613] (FLOW, Mouse)

Details:

Used the PE form of this antibody.

Dillmann C, Ringel C, Ringleb J et al. S1PR4 Signaling Attenuates ILT 7 Internalization To Limit IFN-alpha Production by Human Plasmacytoid Dendritic Cells *J Immunol* 2016-01-18 [PMID: 26783340] (FLOW, Human)

Details:

This citation used the PE version of this antibody.

Lopez MC, Palmer BE, Lawrence DA. Naive T cells, unconventional NK and NKT cells, and highly responsive monocyte-derived macrophages characterize human cord blood *Immunobiology* 2014-06-11 [PMID: 24986635] (Flow Cytometry Control, Human)

Details:

This citation used the PE version of this antibody.

Tengroth L, Millrud C, Kvarnhammar A, Kumlien Georen S, Latif L, Cardell L Functional effects of Toll-like receptor (TLR)3, 7, 9, RIG-I and MDA-5 stimulation in nasal epithelial cells. *PLoS One* 2013-11-30 [PMID: 24886842] (Flow Cytometry Control, Human)

Details:

Citation using the HRP format of this antibody.

Abel K, Wang Y, Fritts L et al. Deoxycytidyl-deoxyguanosine oligonucleotide classes A, B, and C induce distinct cytokine gene expression patterns in rhesus monkey peripheral blood mononuclear cells and distinct alpha interferon responses in TLR9-expressing rhesus monkey plasmacytoid den *Clin Diagn Lab Immunol*. 2005-05-01 [PMID: 15879022] (Flow Cytometry Control, Primate (Rhesus monkey))

Details:

IMG-305C [Flow (Intracellular), Fig. 5] on Rhesus monkey spleen cell suspensions and PBMC.

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 Cytometry Control, Flow-CS, 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.

Selleri S, Palazzo M, Deola S et al. Induction of pro-inflammatory programs in enteroendocrine cells by the Toll-like receptor agonists flagellin and bacterial LPS. *Int Immunol*. 2008-08-01 [PMID: 18544573] (Flow Cytometry Control, Human)

Details:

TLR9-FITC (IMG-305C): Flow (intracellular), Human colon neuroendocrine LCC-18 cell line: Fig. 4d.

Mansson A, Adner M, Cardell LO. Toll-like receptors in cellular subsets of human tonsil T cells: altered expression during recurrent tonsillitis. *Respir Res.* 2006-02-27 [PMID: 16504163]

Details:

Antibodies cited (human tonsils separated into cell subtypes): 1. TLR3 [IMG-315D (Flow-Intracellular), Figs 5 and 6]. 2. TLR5 [IMG-663A (Flow-Intracellular), Fig 6]. 3. TLR9 [IMG-305C (Flow-Intracellular), Fig 4.].

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.

Jukkola-Vuorinen A, Rahko E, Vuopala KS et al. Toll-like receptor-9 expression is inversely correlated with estrogen receptor status in breast cancer. *J Innate Immun.* 2009-01-01 [PMID: 20375566]

Zhou M, McFarland-Mancini MM, Funk HM et al. Toll-like receptor expression in normal ovary and ovarian tumors. *Cancer Immunol Immunother.* 2009-09-01 [PMID: 19184006]

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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

Products Related to NBP2-24907

NBP2-26232	CpG oligodeoxynucleotides with negative control, TLR9 ligand
NBP1-43319PE-0.5ml	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1) [PE]
NBP2-24863	TLR9 Antibody (26C593.2) - Azide Free
NBP1-76680PEP	TLR9 Antibody Blocking Peptide

Limitations

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