

Product Datasheet

TLR2 Antibody (TL2.1) - BSA Free NB100-56722

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NB100-56722

TLR2 Antibody (TL2.1) - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	TL2.1
Preservative	0.02% Sodium Azide
Isotype	IgG2a
Purity	Protein G purified
Buffer	PBS

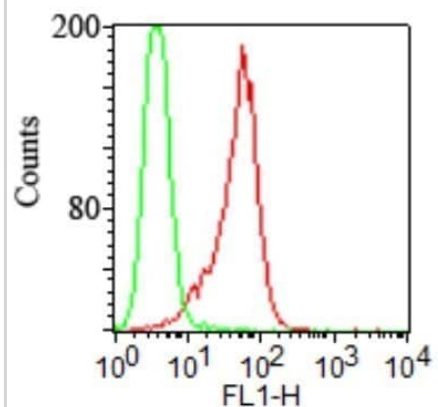
Product Description	
Description	Novus Biologicals Mouse TLR2 Antibody (TL2.1) - BSA Free (NB100-56722) is a monoclonal antibody validated for use in WB, ELISA, Flow, ICC/IF and IP. Anti-TLR2 Antibody: Cited in 62 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	7097
Gene Symbol	TLR2
Species	Human, Mouse, Rat, Canine, Rabbit
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 28219705, 29501923). Rat reactivity reported in scientific literature (PMID: 29501923).
Immunogen	This antibody was raised by immunizing mice with CHO cells transfected with human TLR2 cDNA (PMID: 10657659). The hybridoma supernatants were selected by flow cytometry.

Product Application Details	
Applications	Western Blot, Dot Blot, ELISA, Flow Cytometry, Flow (Cell Surface), Functional, Immunocytochemistry/ Immunofluorescence, In vitro assay, Immunoprecipitation, Block/Neutralize
Recommended Dilutions	Western Blot 1 - 2 ug/ml, Flow Cytometry 1 ug/10 ⁶ cells, ELISA reported in multiple pieces of scientific literature, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunoprecipitation 2-5 ug, Functional reported in scientific literature (PMID 25412776), In vitro assay reported in scientific literature (PMID 24512642), Dot Blot reported in scientific literature (PMID 27248820), Flow (Cell Surface) reported in scientific literature (PMID 24836676), Block/Neutralize reported in scientific literature (PMID 25412776)

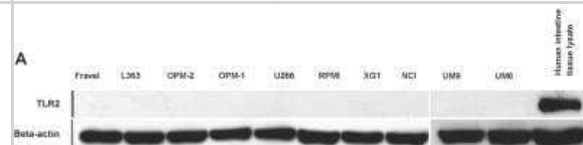


Images

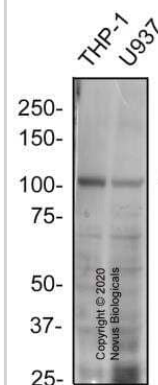
Flow Cytometry: TLR2 Antibody (TL2.1) [NB100-56722] - Analysis using the FITC conjugate of NB100-56726. Surface staining of stable HEK293/hTLR2 cells (IML-202, red) and vector control cells (IML-200, green) using TLR2 antibody at 1 ug/10⁶ cells.



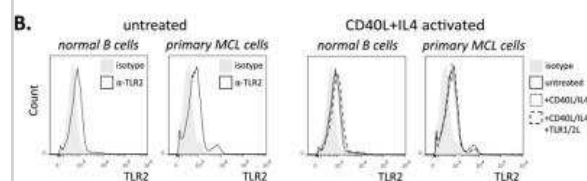
Western Blot: TLR2 Antibody (TL2.1) [NB100-56722] - Expression of TLR2 was determined by western blotting. The immunoreactivity of the anti-TLR2 was confirmed with human intestinal lysate. Data are representative for analysis of ≥ 2 independent experiments. Image collected and cropped by CiteAb from the following publication ([//doi.org/10.1371/journal.pone.0060671](https://doi.org/10.1371/journal.pone.0060671)) licensed under a CC-BY license.



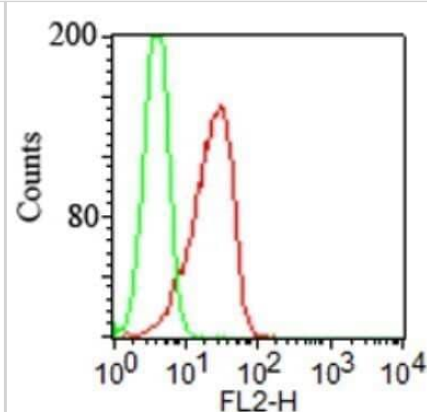
Western Blot: TLR2 Antibody (TL2.1) [NB100-56722] - Total protein from human THP-1 and U937 cells was separated on a 7.5% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 2.0 ug/ml anti-TLR2 (NB100-56722) in 5% BSA-TBST and detected with an anti-mouse HRP secondary antibody using NovaLume chemiluminescence detection reagent (NPB2-61915).



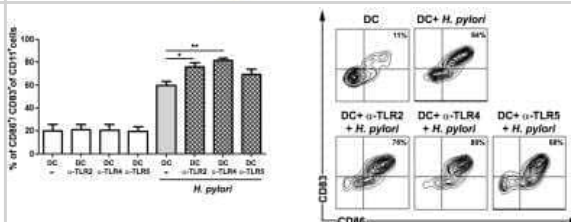
Flow Cytometry: TLR2 Antibody (TL2.1) [NB100-56722] - Monitoring of TLR2 expression in normal B cells and primary MCL cells cultured for 24h in the absence/presence of CD40L, IL-4, and TLR ligands. Filled curves refer to isotypic control, empty curves to the TLR2 antibody (NB100-56722) of untreated samples. Dotted histograms represent CD40L+IL4 activated cells, dashed curves indicate CD40L+IL4 activated cells further treated with TLR ligands. Image collected and cropped by CiteAb from the following publication ([//doi.org/10.1371/journal.pone.0153823](https://doi.org/10.1371/journal.pone.0153823)) licensed under a CC-BY license.



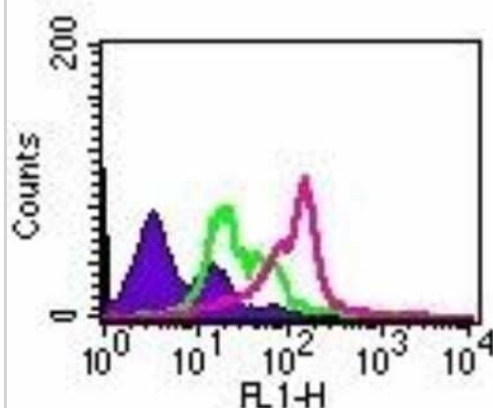
Flow (Cell Surface): TLR2 Antibody (TL2.1) [NB100-56722] - Flow (Cell Surface): - Azide Free [NB100-56726] - Analysis using the PE conjugate of NB100-56726. Staining of TLR2 on stable transfected cell line using this antibody at 1 ug/10⁶ cells. Green: isotype control. Red: anti-TLR2 antibody. Image using the Azide Free form of this antibody.



Block/Neutralize: TLR2 Antibody (TL2.1) [NB100-56722] - Human monocyte-derived DCs were pre-incubated with TLR-neutralizing antibodies including TLR2 antibody (NB100-56722) for 1 h. Afterwards, DCs were infected with *H. pylori* G27 (MOI 5) and the levels of the costimulatory molecule CD86 and the maturation marker CD83 were analyzed by FACS on CD11c+ cells 24 h post-infection. Data are presented as mean \pm SD of five independent experiments. * $p < 0.05$, ** $p < 0.005$, *** $p < 0.0005$. Asterisks on top of bars indicate significance relative to non-neutralized, *H. pylori*-primed control cells. Image collected and cropped by CiteAb from the following publication ([//doi.org/10.1371/journal.pone.0104804](https://doi.org/10.1371/journal.pone.0104804)) licensed under a CC-BY license.



Flow Cytometry: TLR2 Antibody (TL2.1) - BSA Free [NB100-56722] - Intracellular flow analysis of TLR2 in 1x10⁶ PBMCs using 2 ug of NB100-56722. Shaded histogram represents cells without antibody; green represents isotype control; purple represents anti-TLR2 antibody.



Publications

Chenwen X, Quanan J, Yee H, et al Efficacy of Rg1-Oil Adjuvant on Inducing Immune Responses against *Bordetella bronchiseptica* in Rabbits J Immunol Res 2021-02-12 [PMID: 33575363] (WB, Rabbit)

Details:

Citation using the PE version of this antibody.

Ji X, Zhang X et al The Heparin-Binding Hemagglutinin of *Nocardia cyriacigeorgica* GUH-2 Stimulates Inflammatory Cytokine Secretion Through Activation of Nuclear Factor κ B and Mitogen-Activated Protein Kinase Pathways via TLR4 Front Cell Infect Microbiol 2020-03-03 [PMID: 32117792] (WB, Human)

Details:

Citation using the Azide Free version of this antibody.

Ji X, Zhang X, Li H et al. Nfa34810 facilitates *Nocardia farcinica* invasion of host cells and stimulates TNF-alpha secretion through activation of the NF-kappa B and MAPK pathways via TLR4 Infect Immun. [PMID: 31964749] (ELISA, Mouse)

The E, Yao Q, Zhang P et al. Mechanistic Roles of Matrilin-2 and Klotho in Modulating the Inflammatory Activity of Human Aortic Valve Cells. [PMID: 32046115] (WB, Human)

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] (FLOW, Human)

Details:

Citation using the PE version of this antibody.

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.* 2014-08-01 [PMID: 24836676] (Flow-CS, Human)

Details:

Citation using the Azide Free format 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.

Akhter N, Madhoun A, Arefanian H et al Oxidative Stress Induces Expression of the Toll-Like Receptors (TLRs) 2 and 4 in the Human Peripheral Blood Mononuclear Cells: Implications for Metabolic Inflammation Cell. *Cell Physiol Biochem.* 2019-01-01 [PMID: 31162913] (FLOW, Human)

Details:

Citation using the PE version of this antibody.

de Tymowski, C;Heming, N;Correia, MDT;Abbad, L;Chavarot, N;Le Stang, MB;Flament, H;Bex, J;Boedec, E;Bounaix, C;Soler-Torronteras, R;Denamur, E;Galicier, L;Oksenhendler, E;Fehling, HJ;Pinheiro da Silva, F;Benhamou, M;Monteiro, RC;Ben Mkaddem, S; CD89 Is a Potent Innate Receptor for Bacteria and Mediates Host Protection from Sepsis *Cell Rep* 2019-04-16 [PMID: 30995475] (WB, Mouse)

Coelho da Silva FD, Covre LP, Stringari LL et al. Toll-like receptors blocking restores in vitro microbicidal activity in latent tuberculosis-infected subjects *Int. J. Tuberc. Lung Dis.* 2019-02-01 [PMID: 30808454] (B/N, Human)

Kolodzinska A, Czarzasta K, Szczepankiewicz B et al. Toll-like receptor expression and apoptosis morphological patterns in female rat hearts with takotsubo syndrome induced by isoprenaline. *Life Sci* 2018-04-15 [PMID: 29501923] (Rat)

Faure E, Thomas L, Xu H et al. Bacterial lipopolysaccharide and IFN-gamma induce Toll-like receptor 2 and Toll-like receptor 4 expression in human endothelial cells: role of NF-kappa B activation. *J Immunol* 2001-02-01 [PMID: 11160251]

Details:

This citation used the Biotin version of this antibody.

More publications at <http://www.novusbio.com/NB100-56722>



Procedures

Western Blot Protocol for TLR2 Antibody (NB100-56722)

Western Blot Protocol

1. Perform SDS-PAGE on samples to be analyzed, loading 10-25 ug of total protein per lane.
2. Transfer proteins to PVDF membrane according to the instructions provided by the manufacturer of the membrane and transfer apparatus.
3. Stain the membrane with Ponceau S (or similar product) to assess transfer success, and mark molecular weight standards where appropriate.
4. Rinse the blot TBS -0.05% Tween 20 (TBST).
5. Block the membrane in 5% Non-fat milk in TBST (blocking buffer) for at least 1 hour.
6. Wash the membrane in TBST three times for 10 minutes each.
7. Dilute primary antibody in 1.5% BSA and incubate overnight at 4C with gentle rocking.
8. Wash the membrane in TBST three times for 10 minutes each.
9. Incubate the membrane in diluted HRP conjugated secondary antibody in blocking buffer (as per manufacturer's instructions) for 1 hour at room temperature.
10. Wash the blot in TBST three times for 10 minutes each (this step can be repeated as required to reduce background).
11. Apply the detection reagent of choice in accordance with the manufacturers instructi



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 NB100-56722

NBL1-16952	TLR2 Overexpression Lysate
NBP2-25297	Pam3CSK4, TLR1 and TLR2 Ligand
NBP2-29331	TIRAP (TLR2 and TLR4) Inhibitor Peptide Set
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-96778	Mouse IgG2a Isotype Control (M2A)

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