

Product Datasheet

TLR4 Antibody - BSA Free NBP2-24821

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

www.novusbio.com



technical@novusbio.com

Reviews: 1 Publications: 8

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP2-24821

Updated 9/9/2025 v.20.1

**Earn rewards for product
reviews and publications.**

Submit a publication at www.novusbio.com/publications

Submit a review at www.novusbio.com/reviews/destination/NBP2-24821



NBP2-24821

TLR4 Antibody - BSA Free

Product Information

Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein G purified
Buffer	PBS
Target Molecular Weight	95.7 kDa

Product Description

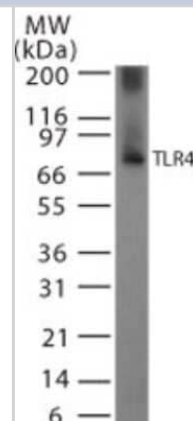
Description	Novus Biologicals Rabbit TLR4 Antibody - BSA Free (NBP2-24821) is a polyclonal antibody validated for use in IHC, WB, Flow and ICC/IF. Anti-TLR4 Antibody: Cited in 8 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	7099
Gene Symbol	TLR4
Species	Human, Mouse, Porcine
Reactivity Notes	Porcine reactivity reported in scientific literature (PMID:32842482).
Immunogen	This TLR4 antibody was developed against a sythetic peptide corresponding to amino acids 420-456 of human TLR4.

Product Application Details

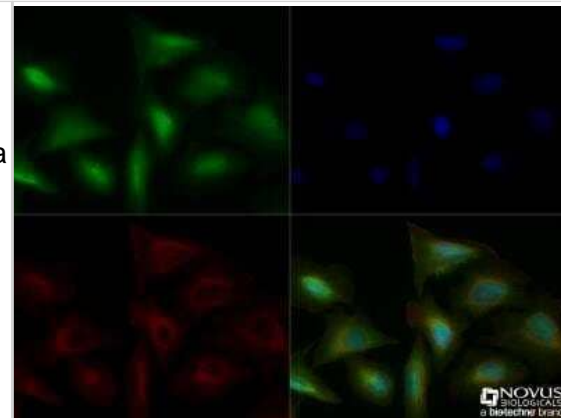
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen
Recommended Dilutions	Western Blot 1 - 3 ug/mL, Flow Cytometry 1 ug / 10 ⁶ cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:50, Immunohistochemistry-Paraffin 1:50, Immunohistochemistry-Frozen 1:10 - 1:500

Images

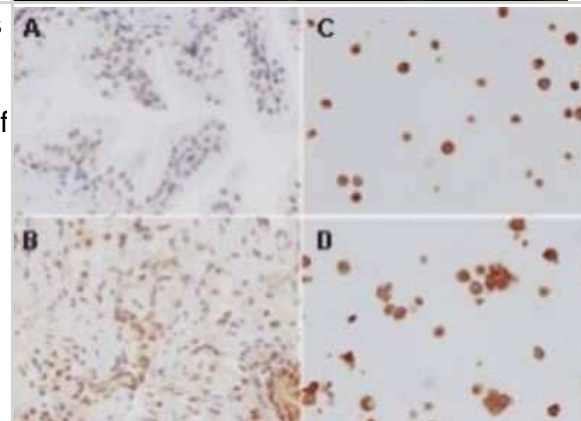
Western Blot: TLR4 Antibody [NBP2-24821] - Analysis of TLR4 using TLR4 antibody at 2 ug/mL on partial recombinant mouse TLR4 protein.



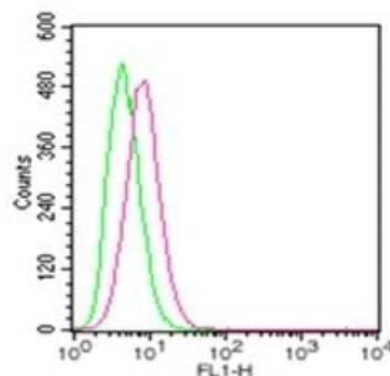
Immunocytochemistry/Immunofluorescence: TLR4 Antibody [NBP2-24821] - U2OS cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton X-100. The cells were incubated with anti-TLR4 [NBP2-24821] at a 1:50 dilution overnight at 4°C and detected with an anti-rabbit DyLight 488 (Green) at a 1:500 dilution. Alpha tubulin (DM1A) NB100-690 was used as a co-stain at a 1:1000 dilution and detected with an anti-mouse DyLight 550 (Red) at a 1:500 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



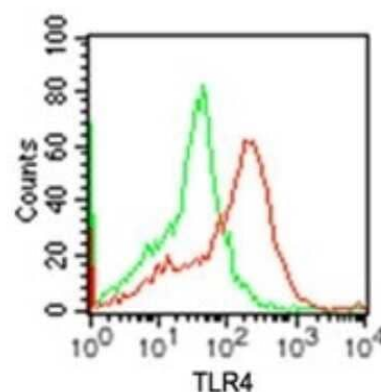
Immunohistochemistry-Paraffin: TLR4 Antibody [NBP2-24821] - Analysis of TLR4 in FFPE (A) normal and (B) tumor prostate sections using TLR4 antibody at 1:50 dilution. ICC analysis of TLR4 in formalin-fixed (C) Ramos and (D) 293 cells using antibody at 1:10 dilution. Data courtesy of Dr. Regina Gandour-Edwards.



Flow Cytometry: TLR4 Antibody [NBP2-24821] - Analysis using the Alexa Fluor (R) 488 conjugate of NBP2-24821. Staining of RAW cells were probed using 2 µg of TLR4 antibody (red) and 2 µg of isotype control antibody (green). Novus's TLR cell surface flow kit (10099K) was used for this test.



Flow Cytometry: TLR4 Antibody [NBP2-24821] - Cell surface analysis using TLR4 antibody. Mouse macrophage cells were probed using 1 µg of TLR4 antibody (red) and 1 µg of isotype control antibody (green). This antibody and PE-conjugated secondary were used for this test.



Publications

Jin Y, Shi M, Feng J et Al. Splenectomy ameliorates liver cirrhosis by restoring the gut microbiota balance *Cell Mol Life Sci* 2024-12-01 [PMID: 38214780]

Ortiz B, Driscoll A, Menon R et al. Chlamydia trachomatis antigen induces TLR4-TAB1-mediated inflammation, but not cell death, in maternal decidua cells *American journal of reproductive immunology* (New York, N.Y. : 1989) 2022-12-09 [PMID: 36495029]

Spencer NR, Radnaa E, Baljinnyam T Et al. Development of a mouse model of ascending infection and preterm birth *PLoS One* 2021-12-02 [PMID: 34855804] (IHC-P, Mouse)

Details:

Citation using the DyLight 650 version of this antibody.

Splichal I, Rychlik I, Splichalova I et al. Toll-Like Receptor 4 Signaling in the Ileum and Colon of Gnotobiotic Piglets Infected with Salmonella Typhimurium or Its Isogenic delta rfa Mutants *Toxins* (Basel) 2020-08-23 [PMID: 32842482] (IF/IHC, IHC-Fr, Porcine)

Barboza R, Lima FA, Reis AS et al. TLR4-Mediated Placental Pathology and Pregnancy Outcome in Experimental Malaria *Sci Rep* 2017-08-17 [PMID: 28819109] (IHC-P, Mouse)

El Shikh ME, El Sayed RM, Wu Y et al. TLR4 on follicular dendritic cells: an activation pathway that promotes accessory activity. *J Immunol.* 2007-10-01 [PMID: 17878340] (IHC-Fr)

Details:

Products cited: 1. TLR4-FITC (IMG-428C): Flow (Cell Surface), Fig 1C, D [primary follicular dendritic (FDC) and B cells isolated from BALB/c mouse splenic leukocytes]. FDC cells expressed TLR4, but the B cells did not. 2. TLR4 (IMG-579A): IHC (F), Fig 1A

Carrithers M, Tandon S, Canosa S et al. Enhanced susceptibility to endotoxic shock and impaired STAT3 signaling in CD31-deficient mice. *Am J Pathol.* 2005-01-01 [PMID: 15632011] (FLOW, Mouse)

Details:

1. TLR4 (IMG-579A) [FACS analysis , FIG. 11 (mouse WT and CD31-deficient splenocytes and endothelial cells)].

Herber DL, Maloney JL, Roth LM et al. Diverse microglial responses after intrahippocampal administration of lipopolysaccharide. *Glia.* 2006-03-01 [PMID: 16288481] (IHC-Fr, Mouse)

Details:

IHC (F): Hippocampus from LPS-treated mice, Fig 1A, B, C.





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 NBP2-24821

NBP2-24821PEP	TLR4 Antibody Blocking Peptide
NBP2-25295-1.0mg	LPS from E. Coli, TLR4 ligand
NBP2-26244	TLR4 Inhibitor Peptide Set
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NBP2-24821

Earn gift cards/discounts by submitting a publication using this product:
www.novusbio.com/publications



