

# Product Datasheet

## TLR5 Antibody (85B152.5) - BSA Free NBP1-97728

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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**NBP1-97728**

TLR5 Antibody (85B152.5) - 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	85B152.5
Preservative	0.05% Sodium Azide
Isotype	IgG2a
Purity	Protein G purified
Buffer	PBS
Target Molecular Weight	100 kDa

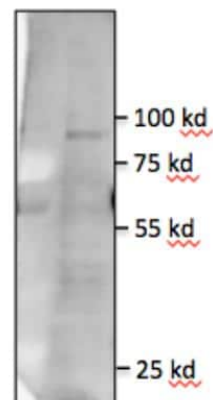
Product Description	
Description	Novus Biologicals Mouse TLR5 Antibody (85B152.5) - BSA Free (NBP1-97728) is a monoclonal antibody validated for use in IHC, WB and Flow. Anti-TLR5 Antibody: Cited in 28 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	7100
Gene Symbol	TLR5
Species	Human, Mouse, Canine
Immunogen	This antibody was developed against KLH-conjugated synthetic peptide corresponding to a portion of human TLR5. It will cross-react with mouse TLR5 (NP_003259).

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Flow (Cell Surface), Flow (Intracellular), Immunohistochemistry
Recommended Dilutions	Western Blot 1-3 ug/ml, Flow Cytometry 1-3 ug/10 <sup>6</sup> cells in 100 ul, Immunohistochemistry, Immunohistochemistry-Paraffin reported in scientific literature (PMID 17570691), Flow (Cell Surface) reported in scientific literature (Wong et al (2007); PMID 24779433), Flow (Intracellular) reported in scientific literature (PMID 24779433)
Application Notes	The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.

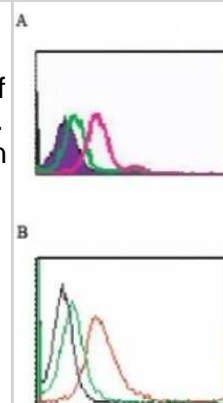


## Images

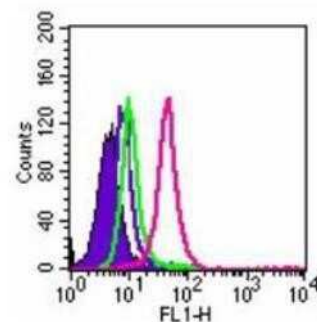
Western Blot: TLR5 Antibody (85B152.5) [NBP1-97728] - Normal human bronchial epithelial total cell lysate. Image from verified customer review.



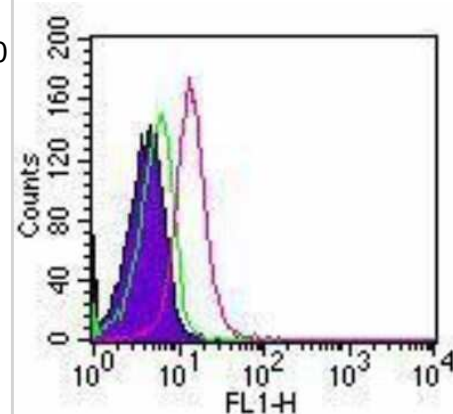
Flow Cytometry: TLR5 Antibody (85B152.5) [NBP1-97728] - Analysis using the FITC conjugate of NBP1-97728. Staining of TLR5 in  $10^6$  cells using 0.5  $\mu$ g of FITC-conjugated antibody: A) Intracellular flow testing of human Ramos cells and B) cell surface flow testing of mouse RAW cells. The shaded (or black) histogram represents cells without antibody, green represents isotype control antibody, and red represents TLR5 antibody.



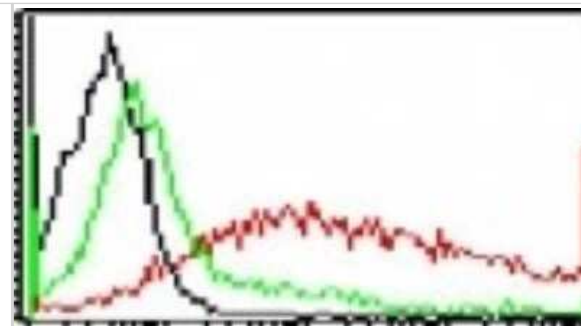
Flow Cytometry: TLR5 Antibody (85B152.5) [NBP1-97728] - Intracellular flow analysis of TLR5 in Ramos cells using 1  $\mu$ g of TLR5 antibody. Shaded histogram represents Ramos cells without antibody; green represents isotype control antibody; red represents TLR5 antibody.



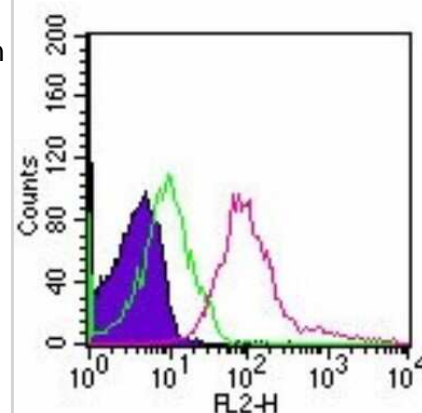
Flow Cytometry: TLR5 Antibody (85B152.5) [NBP1-97728] - Intracellular flow analysis of TLR5 in  $10^6$  human lymphocytes using 0.5  $\mu$ g of NB200-571. The shaded histogram represents cells without antibody, green represents isotype control (BD), and red represents TLR5 antibody.



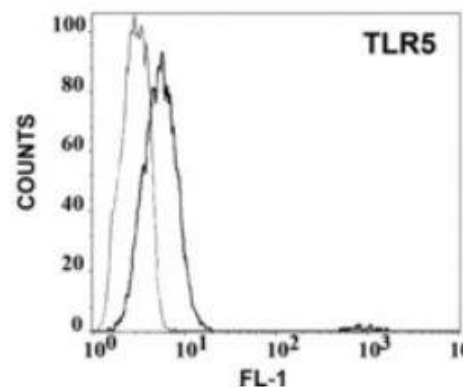
Flow Cytometry: TLR5 Antibody (85B152.5) [NBP1-97728] - Analysis using the PE conjugate of NBP1-97728. Staining of TLR5 in  $10^6$  RAW cells using 0.5 ugs of PE-conjugated antibody. The black histogram represents cells without antibody, green represents isotype control antibody, and red represents TLR5 antibody.



Flow Cytometry: TLR5 Antibody (85B152.5) [NBP1-97728] - Analysis using the PE conjugate of NBP1-97728. Staining of TLR5 in  $10^6$  human lymphocytes using 0.5 ugs of PE-conjugated antibody. The shaded histogram represents cells without antibody, green represents isotype control antibody, and red represents TLR5 antibody.



Flow Cytometry: TLR5 Antibody (85B152.5) [NBP1-97728] - TLR expression in USSCs. Flow cytometry detection of TLRs in USSCs using TLR5 antibody. Image collected and cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/20196781/>) licensed under a CC-BY license.



## Publications

Philippart M, Schmidt J, Bittner B. Oral Delivery of Therapeutic Proteins and Peptides: An Overview of Current Technologies and Recommendations for Bridging from Approved Intravenous or Subcutaneous Administration to Novel Oral Regimens. *Drug research* 2016-12-13 [PMID: 26536331]

Kumazoe M, Takamatsu K, Horie F et al. Methylated (-)-epigallocatechin 3-O-gallate potentiates the effect of split vaccine accompanied with upregulation of Toll-like receptor 5 *Sci Rep* 2021-11-29 [PMID: 34845235] (FLOW, Mouse)

Hoang T, Jung J, Kim J All-Trans Retinoic Acid Enhances Bacterial Flagellin-Stimulated Proinflammatory Responses in Human Monocyte THP-1 Cells by Upregulating CD14 *BioMed Research International* 2019-12-27 [PMID: 31950055]

Kato K, Lillehoj EP, Kim KC. Pseudomonas aeruginosa stimulates tyrosine phosphorylation of and TLR5 association with the MUC1 cytoplasmic tail through EGFR activation. *Inflamm. Res.* 2016-03-01 [PMID: 26645913] (WB, Human)

Mastorci K, Muraro E, Pasini E et al. Toll-Like Receptor 1/2 and 5 Ligands Enhance the Expression of Cyclin D1 and D3 and Induce Proliferation in Mantle Cell Lymphoma. *PLoS ONE.* 2016-04-29 [PMID: 27123851] (FLOW, Human)

Details:

This citation used the FITC version of this antibody.

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.

He B, Xu W, Santini PA et al. Intestinal bacteria trigger T cell-independent immunoglobulin A(2) class switching by inducing epithelial-cell secretion of the cytokine APRIL *Immunity* (IHC-P)

Details:

This publication used the FITC conjugated form of this antibody (Cat# NB200-571).

Mishra A, Brown AL, Yao X et al. Dendritic cells induce Th2-mediated airway inflammatory responses to house dust mite via DNA-dependent protein kinase *Nat Commun* [PMID: 25692509] (FLOW, Mouse)

Details:

This publication used the PE conjugated form of this antibody (Cat# NBP2-24959).

Bens M, Vimont S, Ben Mkaddem S et al. Flagellin/TLR5 signalling activates renal collecting duct cells and facilitates invasion and cellular translocation of uropathogenic *Escherichia coli* *Cell Microbiol* 2014-04-29 [PMID: 24779433] (Flow Cytometry Control, Flow-CS, Mouse)

Details:

This citation used the PE version of this antibody.

Sawitzki B, Brunstein C, Meisel C et al. Prevention of Graft-versus-Host Disease by Adoptive T Regulatory Therapy Is Associated with Active Repression of Peripheral Blood Toll-Like Receptor 5 mRNA Expression. *Biol Blood Marrow Transplant* [PMID: 24184334] (FLOW, Human)

Details:

Used the FITC form of this antibody.

He B, Xu W, Santini PA et al. Intestinal bacteria trigger T cell-independent immunoglobulin A(2) class switching by inducing epithelial-cell secretion of the cytokine APRIL *Immunity* 2007-06-01 [PMID: 17570691] (IHC-P)

Details:

This citation used the FITC version of this antibody.

Riccioli A, Starace D, Galli R et al. Sertoli cells initiate testicular innate immune responses through TLR activation *J Immunol* 2006-11-15 [PMID: 17082629] (Flow-CS)

Details:

This citation used the FITC version of this antibody.

More publications at <http://www.novusbio.com/NBP1-97728>



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### **Products Related to NBP1-97728**

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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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### **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.

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