

# Product Datasheet

## TLR7 Antibody - BSA Free NBP2-24767

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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**NBP2-24767**

TLR7 Antibody - 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	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein G purified
Buffer	PBS

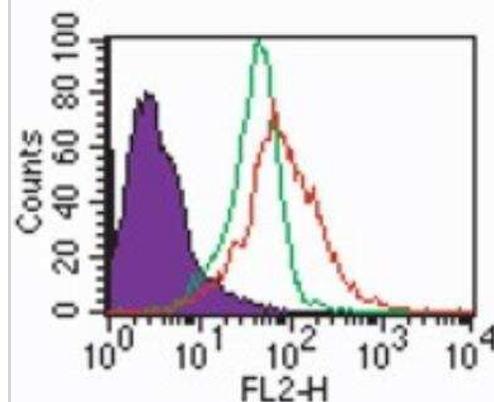
Product Description	
Description	Novus Biologicals Rabbit TLR7 Antibody - BSA Free (NBP2-24767) is a polyclonal antibody validated for use in IHC, WB and Flow. Anti-TLR7 Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	51284
Gene Symbol	TLR7
Species	Human, Primate, Rhesus Macaque
Reactivity Notes	Chimpanzee (100%), Dog (83%)
Immunogen	A portion of amino acids 900-950 of human TLR7 was used as the immunogen.

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunohistochemistry
Recommended Dilutions	Western Blot 0.5-2 ug/ml, Flow Cytometry 1-2 ug / 10 <sup>6</sup> cells, Immunohistochemistry, Immunohistochemistry-Paraffin reported in scientific literature (PMID 25586463)

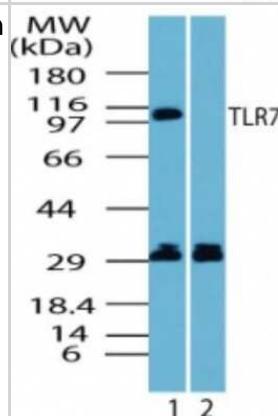


## Images

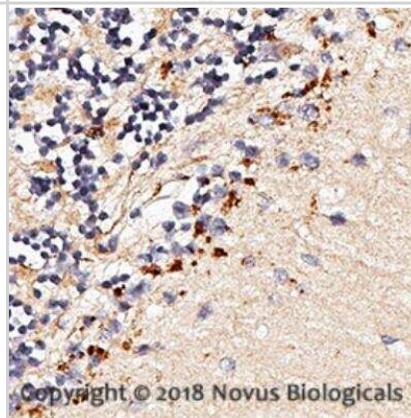
Flow Cytometry: TLR7 Antibody [NBP2-24767] - Intracellular staining by analysis of TLR7 in human PBMCs using this antibody at 2 ug/ml. Shaded histogram represents cells alone; green represents rabbit IgG isotype control, and red represents the TLR7 antibody.



Western Blot: TLR7 Antibody [NBP2-24767] - Analysis of human TLR7 in Ramos cell lysate in the 1) absence and 2) presence of immunizing peptide using this antibody.



Immunohistochemistry-Paraffin: TLR7 Antibody [NBP2-24767] - Human brain using 1:50 dilution of TLR7 antibody on a Bond Rx autostainer (Leica Biosystems). The assay involved 20 minutes of heat induced antigen retrieval (HIER) using 10mM sodium citrate buffer (pH 6.0) and endogenous peroxidase quenching with peroxide block. The sections were incubated with primary antibody for 30 minutes and Bond Polymer Refine Detection (Leica Biosystems) with DAB was used for signal development followed by counterstaining with hematoxylin. Whole slide scanning and capturing of representative images (20X) was performed using Aperio AT2 (Leica Biosystems). Punctate staining of neurons was observed. Staining was performed by Histowiz.



## Publications

Singh K, Agrawal NK, Gupta SK et al. Increased expression of endosomal members of toll-like receptor family abrogates wound healing in patients with type 2 diabetes mellitus *Int Wound J.* 2015-01-14 [PMID: 25586463] (WB, IHC-P, Human)

### Details:

TLR7 antibody used for WB and IHC-P in study involving wound healing in patients with type 2 diabetes mellitus (T2DM)/ diabetic foot ulcer (DFU) patients in comparison to control wounds. IHC-P - Bouin's solution fixed paraffin embedded tissue sections from wound tissue samples, primary antibody used at 1:75 dilution in PBS with 4C 12 hours incubation in a wet chamber, detection with Vectastain Elite ABC Kit followed by hematoxylin counterstaining, data analysis included cells with brown-stained cytoplasm as positive for TLR7 (Figure 6). WB - whole tissue extracts of wound biopsies from DFU cases and controls, 50 ug protein ran on 10% gels, blocking with 5% of skimmed milk, primary antibody used at 1:1000 dilution, detection with HRP conjugated secondary followed by ECL development (Figure 7). These experiments showed increased TLR7 and TLR9 levels in wounds from T2DM patients compared with controls.



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### **Products Related to NBP2-24767**

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NBP2-26228-1mg	Imiquimod, TLR7 ligand
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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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