

# Product Datasheet

## TLR7 Antibody (4G6) - Azide and BSA Free NBP2-25274

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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**NBP2-25274**

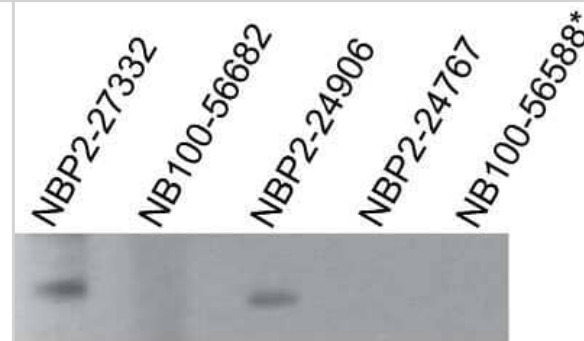
TLR7 Antibody (4G6) - Azide and BSA Free

<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	4G6
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG1 Kappa
<b>Purity</b>	Protein G purified
<b>Buffer</b>	Sterile - filtered PBS
<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Mouse TLR7 Antibody (4G6) - Azide and BSA Free (NBP2-27332) is a monoclonal antibody validated for use in IHC, WB, Flow and ICC/IF. Anti-TLR7 Antibody: Cited in 5 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Mouse
<b>Gene ID</b>	51284
<b>Gene Symbol</b>	TLR7
<b>Species</b>	Human, Mouse
<b>Reactivity Notes</b>	Mouse reactivity reported in scientific literature (PMID: 24126361)
<b>Immunogen</b>	A partial human TLR7 recombinant protein (amino acids 562-839) was used as the immunogen.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, CyTOF-ready, Immunohistochemistry Whole-Mount, Knockdown Validated
<b>Recommended Dilutions</b>	Western Blot 10 ug/ml, Flow Cytometry 1ul/1 million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:500-1:5000. Use reported in scientific literature (PMID 22610069), Immunohistochemistry-Frozen reported in scientific literature (PMID 22610069), Immunohistochemistry Whole-Mount reported in scientific literature (PMID 22610069), CyTOF-ready, Knockdown Validated

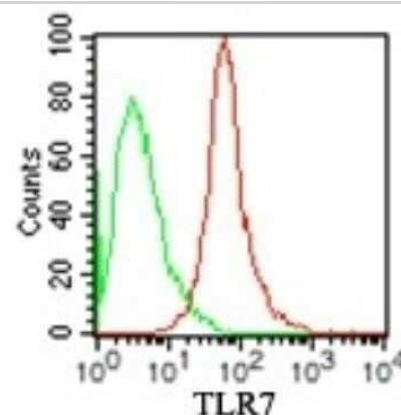


## Images

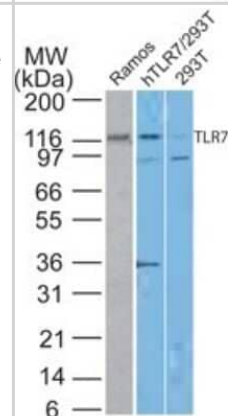
Western Blot: TLR7 Antibody (4G6) - Azide Free [NBP2-25274] - TLR7 antibodies tested at 2 ug/ml on recombinant partial hTLR7 protein (amino acids 562-839). NB100-56682 and NBP2-24767 immunogen sequences are not present in recombinant protein; \*NB100-56588 is not recommended for use in western blot.



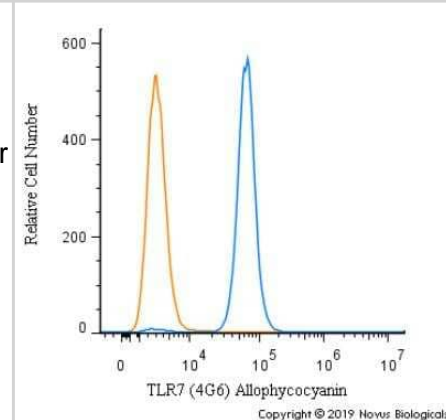
Flow Cytometry: TLR7 Antibody (4G6) - Azide Free [NBP2-25274] - Analysis using the PE conjugate of NBP2-27332. Staining of TLR7 in  $10^6$  human BDCM cells (red) and 0.5 ug of mouse IgG1 isotype control (green). this antibody was used for this test.



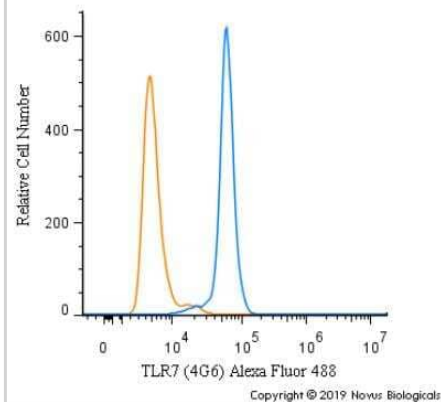
Western Blot: TLR7 Antibody (4G6) - Azide Free [NBP2-25274] - Analysis of human TLR7 antibody in Ramos and transfected 293T lysate using TLR7 monoclonal antibody at 10 ug/ml.



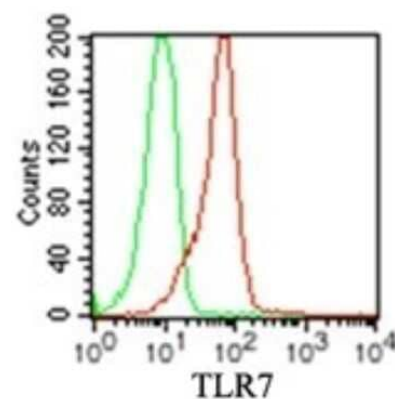
Flow Cytometry: TLR7 Antibody (4G6) - Azide Free [NBP2-25274] - An intracellular stain was performed on THP-1 cells with TLR7 [4G6] Antibody NBP2-25274APC (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 1 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Allophycocyanin.



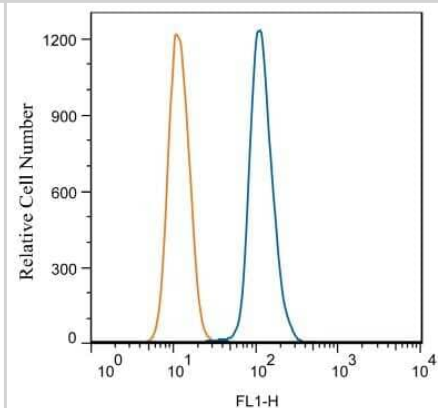
Flow Cytometry: TLR7 Antibody (4G6) - Azide Free [NBP2-25274] - An intracellular stain was performed on THP-1 cells with TLR7 [4G6] Antibody NBP2-25274AF488 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 488.



Flow Cytometry: TLR7 Antibody (4G6) - Azide Free [NBP2-25274] - Analysis of TLR7 in human monocytes using 2 ug of TLR7 monoclonal antibody (red) and 2 ug of mouse IgG1 isotype control antibody (green).



Flow Cytometry: TLR7 Antibody (4G6) - Azide Free [NBP2-25274] - THP-1 cells were stained with TLR7 (4G) NBP2-25274 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 ug/mL for 30 minutes at room temperature, followed by DyLight488-conjugated anti-mouse secondary antibody.



## Publications

Chen W, Zhu L, Shen LL et al. T Lymphocyte Subsets Profile and Toll-Like Receptors Responses in Patients with Herpes Zoster Journal of pain research 2023-05-17 [PMID: 37220634] (FLOW, Human)

Koupenova M, Corkrey HA, Vitseva O et al. The role of platelets in mediating a response to human influenza infection. Nat Commun. 2018-09-01 [PMID: 30992428] (ICC/IF, Mouse)

### Details:

Citation using the Azide Free form of this antibody.

Tengroth L, Arebro J, Kumlien Georen S et al. Deprived TLR9 Expression in Apparently Healthy Nasal Mucosa Might Trigger Polyp-Growth in Chronic Rhinosinusitis Patients. PLoS ONE. 2014-08-19 [PMID: 25133733] (FLOW, Human)

### Details:

This citation used the Alexa Fluor 488 version of this antibody.

Chauhan SK, Singh VV, Rai R et al. Distinct autoantibody profiles in systemic lupus erythematosus patients are selectively associated with TLR7 and TLR9 upregulation. J Clin Immunol. 2013-07-01 [PMID: 23564191] (ICC/IF)

### Details:

PBLs (WB) or B-cells (Flow intracellular) from SLE patients or controls: 1. TLR7 mAb clone IMG4G6 (IMG-6675A): WB (Figs 2a, 2c).

Lehmann SM, Kruger C, Park B et al. An unconventional role for miRNA: let-7 activates Toll-like receptor 7 and causes neurodegeneration. Nat Neurosci. 2012-06-01 [PMID: 22610069] (IHC-Fr, ICC/IF)





### **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 NBP2-25274**

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NBP2-26228-1mg	Imiquimod, TLR7 ligand
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]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)

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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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