

# 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

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	4G6
Preservative	No Preservative
Isotype	IgG1 Kappa
Purity	Protein G purified
Buffer	Sterile - filtered PBS

Product Description	
Host	Mouse
Gene ID	51284
Gene Symbol	TLR7
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 24126361)
Immunogen	A partial human TLR7 recombinant protein (amino acids 562-839) was used as the immunogen.

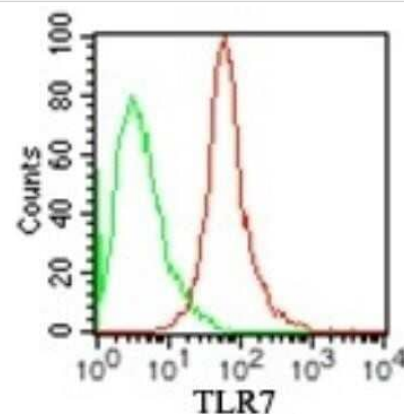
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, CyTOF-ready, Immunohistochemistry Whole-Mount, Knockdown Validated
Recommended Dilutions	Western Blot 10 ug/ml, Flow Cytometry 1ul/1 million 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**

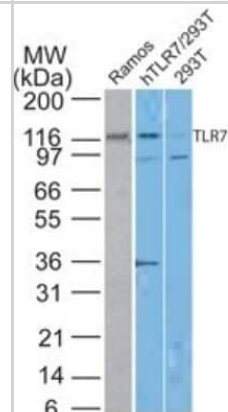
Western Blot: TLR7 Antibody (4G6) - Azide Free [NBP2-25274] - TLR7 antibodies tested at 2 ug/ml on recombinant partial hTLR7 protein (amino acids 562-839). NB100-56682 and NBP2-24767 immunogen sequences are not present in recombinant protein; \*NB100-56588 is not recommended for use in western blot.



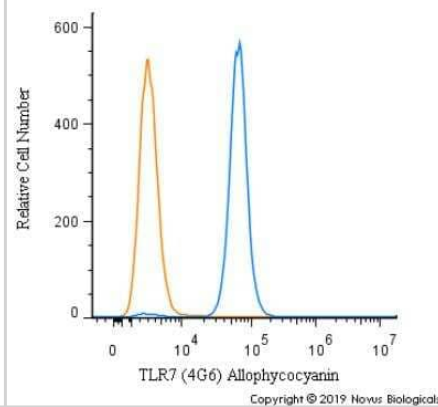
Flow Cytometry: TLR7 Antibody (4G6) - Azide Free [NBP2-25274] - Analysis using the PE conjugate of NBP2-27332. Staining of TLR7 in  $10^6$  human BDCM cells (red) and 0.5 ug of mouse IgG1 isotype control (green). this antibody was used for this test.



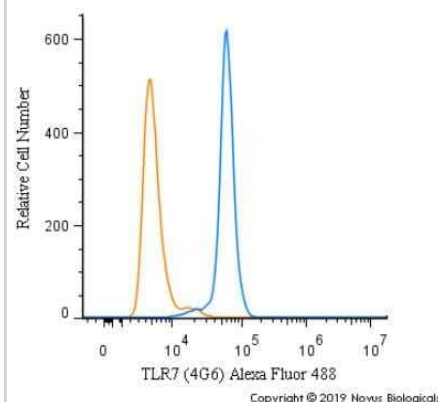
Western Blot: TLR7 Antibody (4G6) - Azide Free [NBP2-25274] - Analysis of human TLR7 antibody in Ramos and transfected 293T lysate using TLR7 monoclonal antibody at 10 ug/ml.



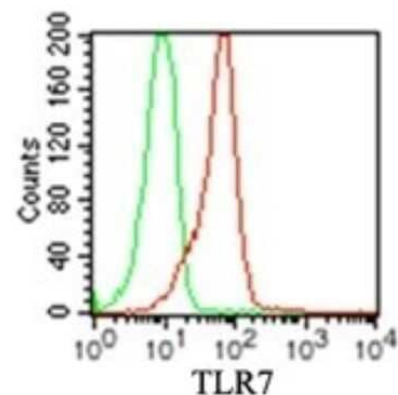
Flow Cytometry: TLR7 Antibody (4G6) - Azide Free [NBP2-25274] - An intracellular stain was performed on THP-1 cells with TLR7 [4G6] Antibody NBP2-25274APC (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody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



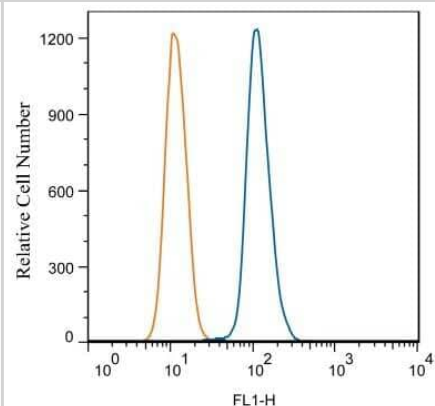
Flow Cytometry: TLR7 Antibody (4G6) - Azide Free [NBP2-25274] - An intracellular stain was performed on THP-1 cells with TLR7 [4G6] Antibody NBP2-25274AF488 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an 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 permeablized 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)



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### **Products Related to NBP2-25274**

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NBP2-26228-1mg	Imiquimod, TLR7 ligand
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
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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