Product Datasheet

TLR9 Antibody (26C593.2) - Azide Free
NBP2-24863

Unit Size: 0.1 mg

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

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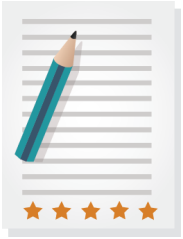
Updated 4/13/2025 v.20.1



NBP2-24863

TLR9 Antibody (26C593.2) - Azide Free

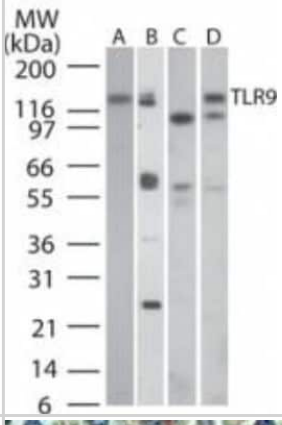
Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	26C593.2
Preservative	No Preservative
Isotype	IgG1 Kappa
Purity	Protein G purified
Buffer	Sterile - filtered PBS

Product Description	
Host	Mouse
Gene ID	54106
Gene Symbol	TLR9
Species	Human, Mouse, Rat, Canine, Equine, Primate, Monkey
Reactivity Notes	Rhesus Monkey.
Immunogen	This antibody was developed against KLH-conjugated synthetic peptide corresponding to amino acids 268-300 of human TLR9 isoform A (Genbank accession no. AAF78037).

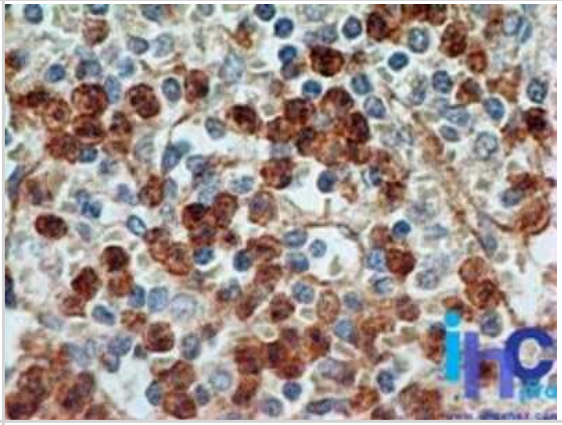
Product Application Details	
Applications	Western Blot, Simple Western, ELISA, Flow Cytometry, Flow (Cell Surface), Flow (Intracellular), Functional, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, In vitro assay, Immunoprecipitation, CyTOF-ready, Knockdown Validated
Recommended Dilutions	Western Blot 2-5 ug/ml, Simple Western 30 ug/ml, Flow Cytometry 1ul/1 million cells, ELISA 1:100 - 1:2000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunoprecipitation 1:10 - 1:500, Immunohistochemistry-Paraffin 5 ug/ml, Immunohistochemistry-Frozen, Functional, In vitro assay, Flow (Cell Surface), Flow (Intracellular) 1:10 - 1:1000, CyTOF-ready, Knockdown Validated
Application Notes	Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10 mM sodium citrate buffer, pH 6.0 for 10-20 min followed by cooling at RT for 20 min. In human PBMC, a ~120 kDa band is observed. A smaller isoform, TLR9 isoform B (Genbank accession no. AAF72190) containing 975 amino acids may also be observed in some cases. Use in Immunohistochemistry-Frozen reported in scientific literature (PMID: 17116765). Use in Immunohistochemistry reported in scientific literature (PMID: 16477017). Use in FLOW cell surface reported in scientific literature (PMID: 15879022).

Images

Western Blot: TLR9 Antibody (26C593.2) - Azide Free [NBP2-24863] - Analysis of TLR9 in A) human PBMC, B) human intestine, C) mouse intestine, and D) rat intestine tissue lysates using this antibody at a dilution of 3 ug/ml.

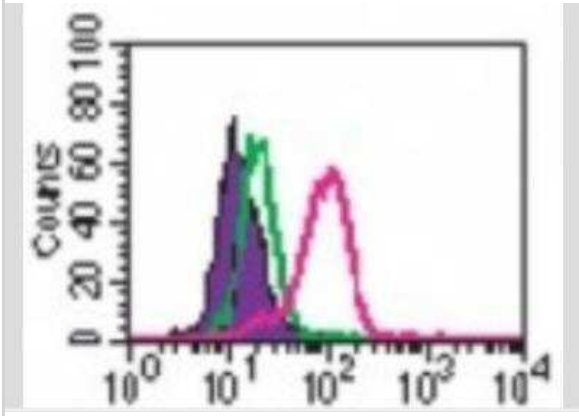


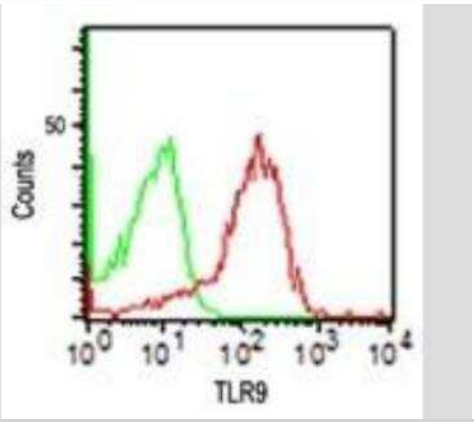
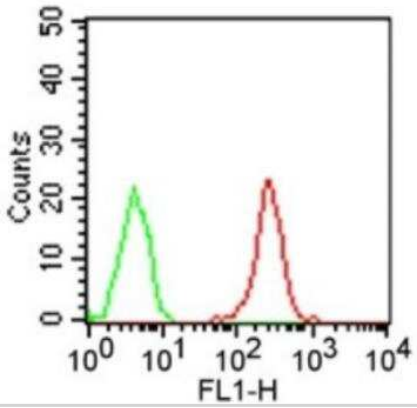
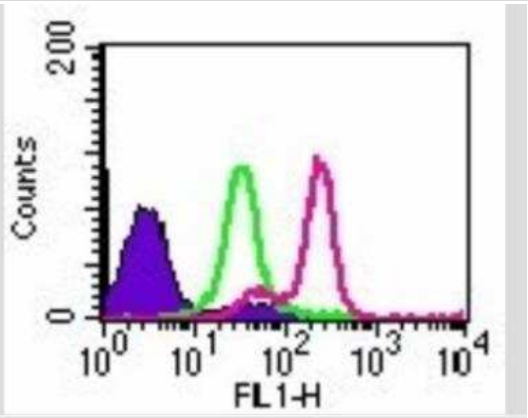
Immunohistochemistry-Paraffin: TLR9 Antibody (26C593.2) - Azide Free [NBP2-24863] - Formalin-fixed, paraffin-embedded human spleen probed with TLR9 antibody at 5 ug/ml. Human tissue was used for this test. Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10 mM sodium citrate buffer, pH 6.0 for 10-20 min followed by cooling at RT for 20 min.

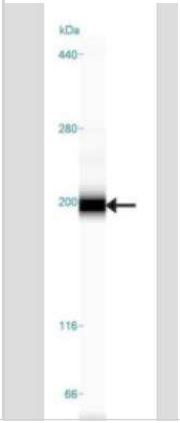


Flow Cytometry: TLR9 Antibody (26C593.2) - Azide Free [NBP2-24863] - Intracellular flow analysis of TLR9 in Ramos cells using 0.5 ug of this antibody. Shaded histogram represents Ramos cells without antibody; green represents isotype control; purple represents anti-TLR9 antibody.

Flow (Intracellular): TLR9 Antibody (26C593.2) - Azide Free [NBP2-24863] - Analysis using the PE conjugate of NBP2-24729. Staining of TLR9 in human PBMCs using 0.2 ug of this antibody. Shaded histogram represents cells without antibody; green represents a mouse IgG1-PE isotype control ; red represents anti-TLR9 antibody.



Flow Cytometry: TLR9 Antibody (26C593.2) - Azide Free [NBP2-24863] - Flow analysis of TLR9 in human PBMC using 0.5 ug of TLR9 antibody (red) and isotype control antibody (green).	
Flow Cytometry: TLR9 Antibody (26C593.2) - Azide Free [NBP2-24863] - Intracellular flow cytometric analysis of TLR9 FITC in human B cells using 1ug/10^6 cells of NBP2-24908. Cells were primarily stained with PE-conjugated CD19 antibody. Cells were then fixed and permeabilized and stained with 1ug of either isotype control	
Flow Cytometry: TLR9 Antibody (26C593.2) - Azide Free [NBP2-24863] - Analysis using the Azide Free version of NBP2-24729. Staining of TLR9 in Ramos cells using 0.5 ug of this antibody. Shaded histogram represents Ramos cells without antibody; green represents isotype control; purple represents anti-TLR9 antibody.	
Flow Cytometry: TLR9 Antibody (26C593.2) - Azide Free [NBP2-24863] - Analysis using the FITC conjugate of NBP2-24729. Staining of TLR9 in Ramos cells using 0.5 ug of this antibody. Green represents isotype control ; red represents anti-TLR9 antibody. TLR intracellular flow kit was used for this test.	

Flow Cytometry: TLR9 Antibody (26C593.2) - Azide Free [NBP2-24863]	
Simple Western: TLR9 Antibody (26C593.2) - Azide Free [NBP2-24863] - Simple Western lane view shows a specific band for TLR9 in 0.5 mg/ml of Ramos lysate. This experiment was performed under reducing conditions using the 66-440 kDa separation system.	

Publications

Parviainen E, Nurmenniemi S, Ravaioli S et Al. Human papillomavirus E6 alters Toll-like receptor 9 transcripts and chemotherapy responses in breast cancer cells in vitro Mol Biol Rep 2024-12-07 [PMID: 39644451]

Parviainen E The effect of human papillomavirus oncoprotein E6 on the expression of Toll-like receptor 9 in breast cancer Thesis 2022-01-01 (WB, Human)

Cohen PA, Koski GK, Czerniecki BJ et al. STAT3- and STAT5-dependent pathways competitively regulate the pan-differentiation of CD34pos cells into tumor-competent dendritic cells. Blood. 2008-09-01 [PMID: 18577706]

Details:
Flow (intracellular), mouse bone marrow cells, Fig. 1E: 1. TLR3 FITC (IMG-315C) 2. TLR4 FITC (IMG-417C) 3. TLR7 (IMG-665A) 4. TLR8 FITC (IMG-321C) 5. TLR9 FITC (IMG-305C).

Niessner A, Sato K, Chaikof EL et al. Pathogen-sensing plasmacytoid dendritic cells stimulate cytotoxic T-cell function in the atherosclerotic plaque through interferon-alpha. Circulation. 2006-12-05 [PMID: 17116765] (IHC-Fr)

Details:
TLR9 (IMG-305) [IHC-F, Fig.3A (carotid plaque tissues)].

Gottenberg JE, Cagnard N, Lucchesi C et al. Activation of IFN pathways and plasmacytoid dendritic cell recruitment in target organs of primary Sjogren's syndrome. Proc Natl Acad Sci U S A. 2006-02-21 [PMID: 16477017] (IF/IHC)

Martin-Armas M, Simon-Santamaria J, Pettersen I et al. Toll-like receptor 9 (TLR9) is present in murine liver sinusoidal endothelial cells (LSECs) and mediates the effect of CpG-oligonucleotides. J Hepatol. 2006-05-01 [PMID: 16458386] (IHC-P)

Tabeta K, Hoebe K, Janssen EM et al. The Unc93b1 mutation 3d disrupts exogenous antigen presentation and signaling via Toll-like receptors 3, 7 and 9. Nat Immunol. 2006-02-01 [PMID: 16415873]

Details:
TLR9 (IMG-305) [IF/ICC, Fig.5g-i (primary mouse macrophages)]. The specificity of the TLR9 antibody is demonstrated using primary mouse macrophages from wildtype (5g) and TLR9 knockout (5i) mice.

Abel K, Wang Y, Fritts L et al. Deoxycytidyl-deoxyguanosine oligonucleotide classes A, B, and C induce distinct cytokine gene expression patterns in rhesus monkey peripheral blood mononuclear cells and distinct alpha interferon responses in TLR9-expressing rhesus monkey plasmacytoid den Clin Diagn Lab Immunol. 2005-05-01 [PMID: 15879022] (Flow Cytometry Control, Primate (Rhesus monkey))

Details:
IMG-305C [Flow (Intracellular), Fig. 5] on Rhesus monkey spleen cell suspensions and PBMC.

Cognasse F, Hamzeh H, Chavarin P et al. Evidence of Toll-like receptor molecules on human platelets. Immunol Cell Biol. 2005-04-01 [PMID: 15748217]

Details:
TLR2-PE (IMG-416D), TLR4-PE (IMG-417D), TLR6 (IMG-304A), TLR8-PE (IMG-321D), TLR9-PE (IMG-305D). Applications: Intracellular Flow Cytomety and Cell Surface Flow Cytometry: Figs 1 and 2. A comparison of staining results, intracellular versus cell surface flow cytometry is shown. Cell type: Human platelets.

Droemann D, Albrecht D, Gerdes J et al. Human lung cancer cells express functionally active Toll-like receptor 9. Respir Res. 2005-01-04 [PMID: 15631627] (IF/IHC)

Sipola S. COLECTOMY IN AN ICU PATIENT POPULATION Thesis 2014-01-01 (IHC-P, Human)

Details:
Normal and diseased colon, the TLR9 mAb was used at 1:150.

Faruk EM,Yousef MM, Mohamed T. Does vitamin D have protective effect on human nasal polyposis: histological and immunohistochemical study. Journal of Histology & Histopathology 2014-01-01 (IHC-P, Human)

Details:
Nasal mucosa tissue from biopsies, Fig 4, Table 5.

More publications at http://www.novusbio.com/NBP2-24863

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Products Related to NBP2-24863

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NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)

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