

Product Datasheet

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

Unit Size: 0.1 mg

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

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NBP2-24863

TLR9 Antibody (26C593.2) - Azide and BSA Free

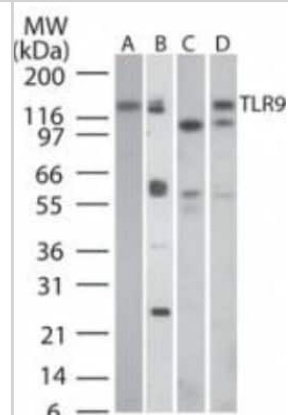
| Product Information | |
|---------------------|--|
| Unit Size | 0.1 mg |
| Concentration | 1.0 mg/ml |
| Storage | Store at -20C. Avoid freeze-thaw cycles. |
| Clonality | Monoclonal |
| Clone | 26C593.2 |
| Preservative | No Preservative |
| Isotype | IgG1 Kappa |
| Purity | Protein G purified |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

| Product Description | |
|---------------------|---|
| Description | Novus Biologicals Mouse TLR9 Antibody (26C593.2) - Azide and BSA Free (NBP2-24729) is a monoclonal antibody validated for use in IHC, WB, ELISA, Flow, ICC/IF, Simple Western and IP. Anti-TLR9 Antibody: Cited in 53 publications. All Novus Biologicals antibodies are covered by our 100% guarantee. |
| 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). |

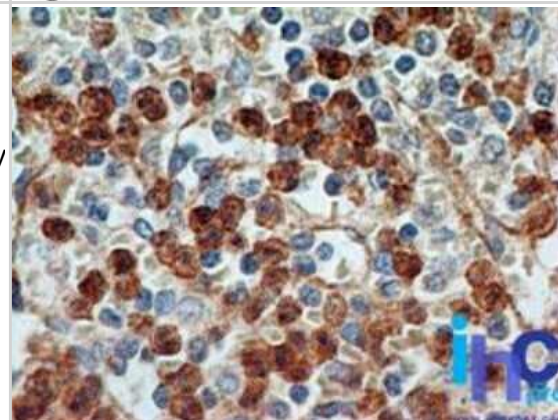
| Product Application Details | |
|-----------------------------|--|
| Applications | Western Blot, Simple Western, Immunohistochemistry-Paraffin, ELISA, Flow Cytometry, Flow (Cell Surface), Flow (Intracellular), Functional, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, 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

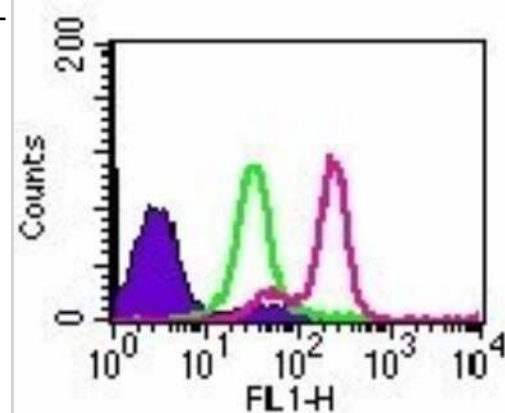
Western Blot: TLR9 Antibody (26C593.2) - Azide Free [NBP2-24863] - Analysis of TLR9 in A) human PBMC, B) human intestine, C) mouse intestine, and D) rat intestine tissue lysates using this antibody at a dilution of 3 ug/ml.



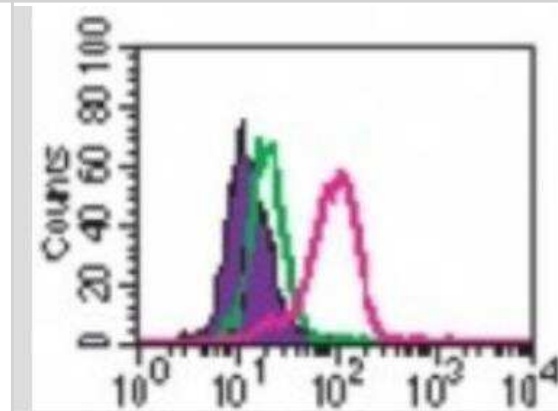
Immunohistochemistry-Paraffin: TLR9 Antibody (26C593.2) - Azide Free [NBP2-24863] - Formalin-fixed, paraffin-embedded human spleen probed with TLR9 antibody at 5 ug/ml. Human tissue was used for this test. Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10 mM sodium citrate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



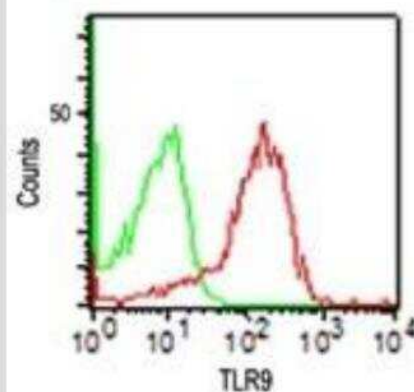
Flow Cytometry: TLR9 Antibody (26C593.2) - Azide Free [NBP2-24863] - Intracellular flow analysis of TLR9 in Ramos cells using 0.5 ug of this antibody. Shaded histogram represents Ramos cells without antibody; green represents isotype control; purple represents anti-TLR9 antibody.



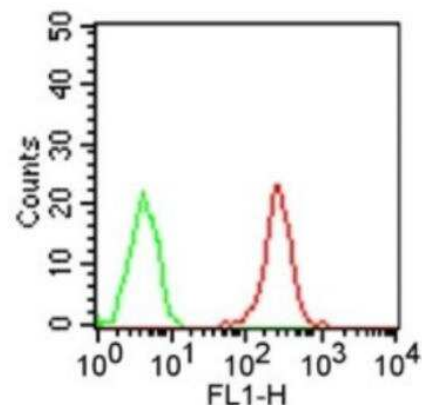
Flow (Intracellular): TLR9 Antibody (26C593.2) - Azide Free [NBP2-24863] - Analysis using the PE conjugate of NBP2-24729. Staining of TLR9 in human PBMCs using 0.2 ug of this antibody. Shaded histogram represents cells without antibody; green represents a mouse IgG1-PE isotype control; red represents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



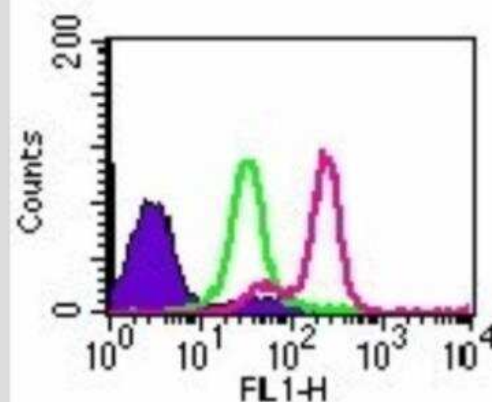
Flow Cytometry: TLR9 Antibody (26C593.2) - Azide Free [NBP2-24863] - Flow analysis of TLR9 in human PBMC using 0.5 ug of TLR9 antibody (red) and isotype control antibody (green).



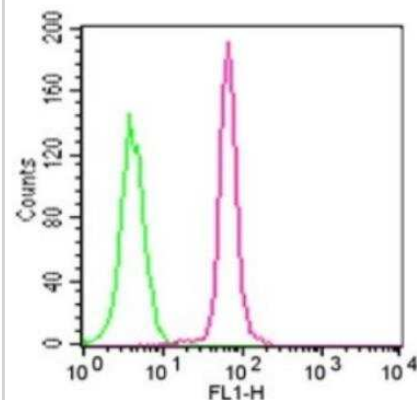
Flow Cytometry: TLR9 Antibody (26C593.2) - Azide Free [NBP2-24863] - Intracellular flow cytometric analysis of TLR9 FITC in human B cells using 1ug/10⁶ cells of NBP2-24908. Cells were primarily stained with PE-conjugated CD19 antibody. Cells were then fixed and permeabilized and stained with 1ug of either isotype control



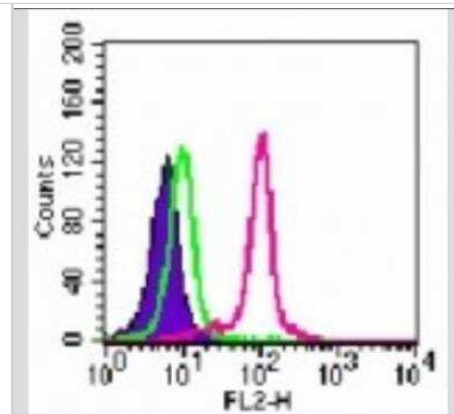
Flow Cytometry: TLR9 Antibody (26C593.2) - Azide Free [NBP2-24863] - Analysis using the Azide Free version of NBP2-24729. Staining of TLR9 in Ramos cells using 0.5 ug of this antibody. Shaded histogram represents Ramos cells without antibody; green represents isotype control; purple represents anti-TLR9 antibody.



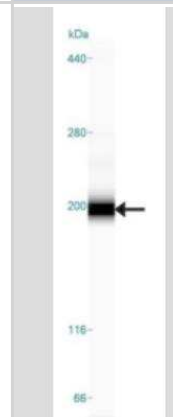
Flow Cytometry: TLR9 Antibody (26C593.2) - Azide Free [NBP2-24863] - Analysis using the FITC conjugate of NBP2-24729. Staining of TLR9 in Ramos cells using 0.5 ug of this antibody. Green represents isotype control ; red represents anti-TLR9 antibody. TLR intracellular flow kit was used for this test.



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 Cytometry 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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| 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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