Product Datasheet

TLR9 Antibody (26C593.2) - BSA Free
NBP2-24729

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

Reviews: 4   Publications: 151

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Updated 6/5/2023 v.20.1
NBP2-24729
TLR9 Antibody (26C593.2) - BSA Free

Product Information

Unit Size 0.1 mg
Concentration 1 mg/ml
Storage Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality Monoclonal
Clone 26C593.2
Preservative 0.05% Sodium Azide
Isotype IgG1 Kappa
Purity Protein G purified
Buffer 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, Dot Blot, ELISA, Flow Cytometry, Flow (Intracellular), Functional, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, In vitro assay, Immunoprecipitation, Block/Neutralize, CyTOF-ready, Knockdown Validated

Recommended Dilutions


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 Functional and in vitro assays reported in scientific literature (PMID 25411258). Use in ELISA reported in multiple publications. Use in Immunoprecipitation reported in scientific literature (PMID 25871979). Use in Flow-intracellular reported in scientific literature (PMID 24986635). Use in functional reported in scientific literature (PMID: 25411258). Use in Dot blot reported in scientific literature (PMID: 27248820). In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. Separated by Size-Wes, Sally Sue/Peggy Sue. Use in Immunohistochemistry reported in scientific literature (PMID 27744078). Use in blocking/neutralizing reported in scientific literature (PMID: 25338738). Knockdown validation (PMID: 31655343).
**Images**

Simple Western: TLR9 Antibody (26C593.2) [NBP2-24729] - 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. Image using the Azide Free format of this antibody.

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Flow Cytometry: TLR9 Antibody (26C593.2) [NBP2-24729] - Expression of TLR9 protein on epithelial cells. HNEC, Detroit-562 and FaDu were stained intracellularly with PE-Ab against TLR9 (open histograms) or appropriate isotype control (shaded histograms) and analyzed by flow cytometry. Representative pictures from one out of three independent experiments are shown. Image collected and cropped by CiteAb from the following publication ([//dx.plos.org/10.1371/journal.pone.0098239]), licensed under a CC-BY license.

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Knockdown Validated: TLR9 Antibody (26C593.2) [NBP2-24729] - Expression of TLR-9 protein in HB cells before and after 48 hr of transfection. Beta-actin was used as an internal control. Image collected and cropped by CiteAb from the following publication ([//doi.org/10.1371/journal.pone.0092748]) licensed under a CC-BY license.

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Flow Cytometry: TLR9 Antibody (26C593.2) [NBP2-24729] - Analysis of colonic LP or peritoneal cavity (PerC) of normal mice were evaluated by flow cytometry. B cells were intracellularly stained with the anti-TLR9 antibody after the cell surface staining with anti-B220 and CD5 antibodies, and examined using flow cytometry. N = 3, performed twice. Image collected and cropped by CiteAb from the following publication ([//doi.org/10.1371/journal.pone.0146191]) licensed under a CC-BY license.

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Immunocytochemistry/Immunofluorescence: TLR9 Antibody (26C593.2) [NBP2-24729] - Cbl-b is required for the endocytic transit of TLR9. Representative confocal microscopic images of splenocytes from mice with indicated genotypes. For experiments, cells were stimulated through the BCR (green) for 30 minutes then fixed and stained for TLR9 (blue) and Lamp-1 (red)(n = 3). Image collected and cropped by CiteAb from the following publication (//doi.org/10.1371/journal.pone.0089792) licensed under a CC-BY license.

Immunohistochemistry-Paraffin: TLR9 Antibody (26C593.2) [NBP2-24729] - Monkey retina tissue. Image from verified customer review.

Flow Cytometry: TLR9 Antibody (26C593.2) [NBP2-24729] - Gating strategy for the detection of TLR-7 and -9 in B cell subsets. PBMC were isolated from whole blood and stained for surface markers before cells were fixed, permeabilised and stained for TLR-9. FSC and SSC were first used to gate out debris and SSC-A and SSC-H was utilized to eliminate duplicates. Further gating was done on CD45 and CD19, to target B cells. To separate between the different B cell populations, we gated on CD27 and IgD (D), followed by TLR-9 expression on these subsets. Data from one representative patient is shown. Image collected and cropped by CiteAb from the following publication (//doi.org/10.1371/journal.pone.0120383) licensed under a CC-BY license.

Western Blot: TLR9 Antibody (26C593.2) [NBP2-24729] - 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.
Flow Cytometry: TLR9 Antibody (26C593.2) [NBP2-24729] - Expression of TLR9 on turbinate epithelial cells from healthy controls compared to turbinate and polyp epithelial cells from patients with CRSwNP, n = 5 (A). Intracellular staining for TLR9 (open histogram, black line) and isotype control (filled histogram) on turbinate epithelial cells from a healthy control (B), turbinate epithelial cells (C) and polyp epithelial cells from a patient (D), analysed using flow cytometry. Results are presented as mean +/- SEM, **P<0.01. Image collected and cropped by CiteAb from the following publication [//doi.org/10.1371/journal.pone.0105618] licensed under a CC-BY license.

Publications

Spurgeon BEJ, Frelinger AL Platelet Phenotyping by Full Spectrum Flow Cytometry Current protocols 2023-02-01 [PMID: 36779850]

Ma X, Rawnsley D, Kovacs A et al. TRAF2, an Innate Immune Sensor, Reciprocally Regulates Mitophagy and Inflammation to Maintain Cardiac Myocyte Homeostasis JACC Basic Transl Sci 2022-04-12 [PMID: 35411325]


Khin PP, Hong Y, Yeon M Et al. Dulaglutide improves muscle function by attenuating inflammation through OPA-1-TLR-9 signaling in aged mice Aging 2021-09-19 [PMID: 34537761] (WB, Mouse)

Ishizu T, Eichin D, Padzik A et al. Head and neck squamous cell carcinoma cell lines have an immunomodulatory effect on macrophages independent of hypoxia and toll-like receptor 9 BMC cancer 2021-09-03 [PMID: 34479492] (WB, Human)


Kuramoto K, Kim YJ, Hong JH, He C The autophagy protein Becn1 improves insulin sensitivity by promoting adiponectin secretion via exocyst binding Cell reports 2021-05-25 [PMID: 34038729]

Li FJ, Surolia R, Li H et al. Citrullinated vimentin mediates development and progression of lung fibrosis Science translational medicine 2021-03-17 [PMID: 33731433]

Korimov A A, Dubov Y P N-Formylated Peptide Induces Increased Expression of Both Formyl Peptide Receptor 2 (Fpr2) and Toll-Like Receptor 9 (TLR9) in Schwannoma Cells-An In Vitro Model for Early Inflammatory Profiling of Schwann Cells Cells 2020-12-11 [PMID: 33322305] (WB, Rat)


Details:
Citation using the HRP format of this antibody.

More publications at http://www.novusbio.com/NBP2-24729
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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