Product Datasheet

TLR4 Antibody - BSA Free NBP2-24821SS

Unit Size: 0.025 mg

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



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NBP2-24821SS

TLR4 Antibody - BSA Free

| Product Information | | |
|-----------------------------|---|--|
| Unit Size | 0.025 mg | |
| Concentration | 1.0 mg/ml | |
| Storage | Store at -20C. Avoid freeze-thaw cycles. | |
| Clonality | Polyclonal | |
| Preservative | 0.05% Sodium Azide | |
| Isotype | IgG | |
| Purity | Protein G purified | |
| Buffer | PBS | |
| Target Molecular Weight | 95.7 kDa | |
| Product Description | | |
| Host | Rabbit | |
| Gene ID | 7099 | |
| Gene Symbol | TLR4 | |
| Species | Human, Mouse, Porcine | |
| Reactivity Notes | Porcine reactivity reported in scientific literature (PMID:32842482). | |
| Immunogen | This TLR4 antibody was developed against a sythetic peptide corresponding to amino acids 420-456 of human TLR4. | |
| Product Application Details | | |
| Applications | Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry- Paraffin | |
| Recommended Dilutions | Western Blot 1 - 3 ug/mL, Flow Cytometry 1 ug / 10 ⁶ cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:50, Immunohistochemistry-Paraffin 1:50, Immunohistochemistry-Frozen 1:10 - 1:500 | |
| Images | | |

Western Blot: TLR4 Antibody [NBP2-24821] - Analysis of TLR4 using TLR4 antibody at 2 ug/mL on partial recombinant mouse TLR4 protein.

| MW (kDa) 200 — | | |
|----------------------|------|--|
| $^{116}_{97} \equiv$ | | |
| 66 — | TLR4 | |
| 55 — | | |
| 36 — | | |
| 31 — | | |
| 21 — | | |
| 14 — | | |
| 6 — | | |



Immunocytochemistry/Immunofluorescence: TLR4 Antibody [NBP2-24821] - U2OS cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton X-100. The cells were incubated with anti-TLR4 [NBP2-24821] at a 1:50 dilution overnight at 4C and detected with an anti-rabbit DyLight 488 (Green) at a 1:500 dilution. Alpha tubulin (DM1A) NB100-690 was used as a co-stain at a 1:1000 dilution and detected with an anti-mouse DyLight 550 (Red) at a 1:500 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.

Immunohistochemistry-Paraffin: TLR4 Antibody [NBP2-24821] - Analysis of TLR4 in FFPE (A) normal and (B) tumor prostate sections using TLR4 antibody at 1:50 dilution. ICC analysis of TLR4 in formalin-fixed (C) Ramos and (D) 293 cells using antibody at 1:10 dilution. Data courtesy of Dr. Regina Gandour-Edwards.

Flow Cytometry: TLR4 Antibody [NBP2-24821] - Analysis using the Alexa Fluor (R) 488 conjugate of NBP2-24821. Staining of RAW cells were probed using 2 ug of TLR4 antibody (red) and 2 ug of isotype control antibody (green). Novus's TLR cell surface flow kit (10099K) was used for this test.

Flow Cytometry: TLR4 Antibody [NBP2-24821] - Cell surface analysis using TLR4 antibody. Mouse macrophage cells were probed using 1 ug of TLR4 antibody (red) and 1 ug of isotype control antibody (green). This antibody and PE-conjugated secondary were used for this test.

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Publications

Jin Y, Shi M, Feng J et Al. Splenectomy ameliorates liver cirrhosis by restoring the gut microbiota balance Cell Mol Life Sci 2024-12-01 [PMID: 38214780]

Ortiz B, Driscoll A, Menon R et al. Chlamydia trachomatis antigen induces TLR4-TAB1-mediated inflammation, but not cell death, in maternal decidua cells American journal of reproductive immunology (New York, N.Y. : 1989) 2022-12-09 [PMID: 36495029]

Spencer NR, Radnaa E, Baljinnyam T Et al. Development of a mouse model of ascending infection and preterm birth PLoS One 2021-12-02 [PMID: 34855804] (IHC-P, Mouse)

Details:

Citation using the DyLight 650 version of this antibody.

Splichal I, Rychlik I, Splichalova I et al. Toll-Like Receptor 4 Signaling in the Ileum and Colon of Gnotobiotic Piglets Infected with Salmonella Typhimurium or Its Isogenic delta rfa Mutants Toxins (Basel) 2020-08-23 [PMID: 32842482] (IF/IHC, IHC-Fr, Porcine)

Barboza R, Lima FA, Reis AS et al. TLR4-Mediated Placental Pathology and Pregnancy Outcome in Experimental Malaria Sci Rep 2017-08-17 [PMID: 28819109] (IHC-P, Mouse)

El Shikh ME, El Sayed RM, Wu Y et al. TLR4 on follicular dendritic cells: an activation pathway that promotes accessory activity. J Immunol. 2007-10-01 [PMID: 17878340] (IHC-Fr)

Details:

Products cited: 1. TLR4-FITC (IMG-428C): Flow (Cell Surface), Fig 1C, D [primary follicular dendritic (FDC) and B cells isolated from BALB/c mouse splenic leukocytes]. FDC cells expressed TLR4, but the B cells did not. 2. TLR4 (IMG-579A): IHC (F), Fig 1A

Carrithers M, Tandon S, Canosa S et al. Enhanced susceptibility to endotoxic shock and impaired STAT3 signaling in CD31-deficient mice. Am J Pathol. 2005-01-01 [PMID: 15632011] (FLOW, Mouse)

Details:

1. TLR4 (IMG-579A) [FACS analysis, FIG. 11 (mouse WT and CD31-deficient splenocytes and endothelial cells)].

Herber DL, Maloney JL, Roth LM et al. Diverse microglial responses after intrahippocampal administration of lipopolysaccharide. Glia. 2006-03-01 [PMID: 16288481] (IHC-Fr, Mouse)

Details:

IHC (F): Hippocampus from LPS-treated mice, Fig 1A, B, C.





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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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