

Product Datasheet

TLR5 Antibody (19D759.2) - BSA Free NBP2-24787

Unit Size: 0.1 mg

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

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NBP2-24787

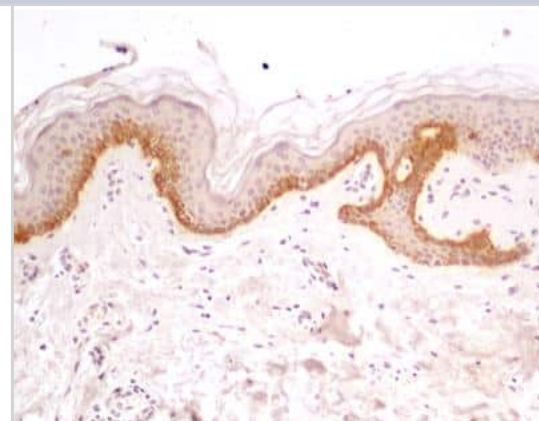
TLR5 Antibody (19D759.2) - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	19D759.2
Preservative	0.05% Sodium Azide
Isotype	IgG2a Kappa
Purity	Protein G purified
Buffer	PBS
Product Description	
Host	Mouse
Gene ID	7100
Gene Symbol	TLR5
Species	Human, Mouse, Canine
Immunogen	This antibody was developed against KLH-conjugated synthetic peptide corresponding to a portion of human TLR5 between amino acids 700-800. The antibody also reacts with mouse TLR5.
Product Application Details	
Applications	Western Blot, Dot Blot, Flow Cytometry, Flow (Cell Surface), Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1-3 ug/ml, Flow Cytometry 0.5-1 ug/10 ⁶ cells, Immunohistochemistry 1:10-1:500. Use reported in scientific literature (PMID 27392931), Immunocytochemistry/ Immunofluorescence 5 ug/ml. Use reported by customer review, Immunoprecipitation, Immunohistochemistry-Paraffin 5 ug/ml, Immunohistochemistry-Frozen 10 ug/ml, Dot Blot reported in scientific literature (PMID 27248820), Flow (Cell Surface) reported in scientific literature (PMID 24412598), Flow (Intracellular) 0.5-1 ug/10 ⁶ cells. Use reported in scientific literature (PMID 24412598)
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.

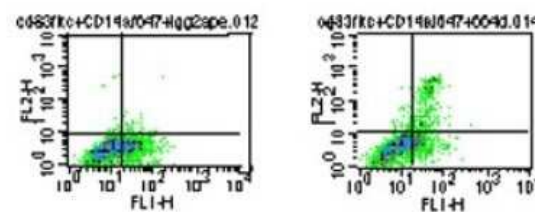


Images

Immunohistochemistry-Paraffin: TLR5 Antibody (19D759.2) [NBP2-24787] - Analysis of FFPE tissue section of normal human skin using 5 ug/ml concentration of TLR5 antibody (clone 19D759.2). Intense membrane staining of TLR5 was observed specifically in the pigmented basal cells of epidermal layer [10X Magnification]

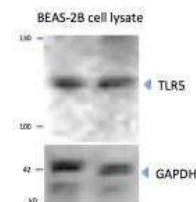


Flow Cytometry: TLR5 Antibody (19D759.2) [NBP2-24787] - Analysis using the PE conjugate of NBP2-24787. Staining of CD14⁻/CD83⁺/TLR5⁺ differentiated myeloid dendritic cells (mDCs). PBMCs were stimulated 5 days with GM-CSF+IL4 prior to the staining. The cells were stained for surface markers CD14 and CD83 FITC, and TLR5 PE. CD14⁻ cells were gated and stained with PE-conjugated isotype control (mouse IgG2a), and FITC-conjugated CD83 (left). CD14⁻ cells were gated and stained with 1 ug PE-conjugated TLR5, and FITC-conjugated CD83 (right).



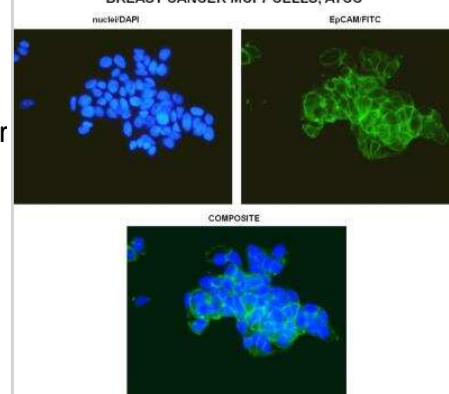
Western Blot: TLR5 Antibody (19D759.2) [NBP2-24787] - BEAS-2B cells whole cell lysate. Image from verified customer review.

Validation of NBP2-24787 anti-TLR5 mouse monoclonal antibody.

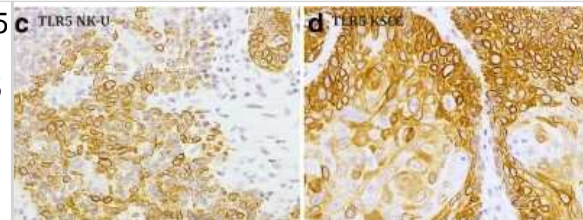


Immunocytochemistry/Immunofluorescence: TLR5 Antibody (19D759.2) [NBP2-24787] - Staining using in-vitro cultured fixed non-permeabilized MCF7 breast cancer cells (ATCC). EpCAM (cell membrane) staining is represented in green (FITC filter), nuclei staining is represented in blue (DAPI filter). Image from a verified customer review using the Alexa Fluor 488 conjugated format of this antibody.

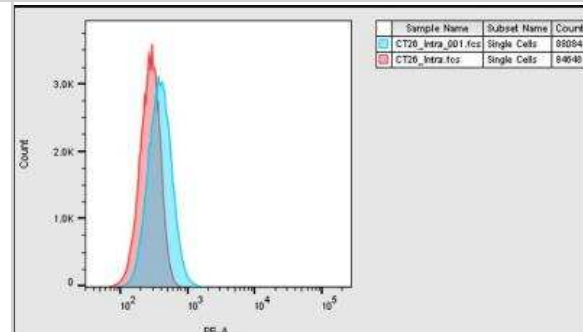
BREAST CANCER MCF7 CELLS, ATCC



Immunohistochemistry: TLR5 Antibody (19D759.2) [NBP2-24787] - TLR5 and TLR7 expression in nasopharyngeal carcinoma and in the normal epithelium. Mild positive TLR5 expression in NK-U. Strong positive TLR5 expression in KSCC. Image collected and cropped by CiteAb from the following publication
(<https://bmccancer.biomedcentral.com/articles/10.1186/s12885-019-5816-9>), licensed under a CC-BY license.



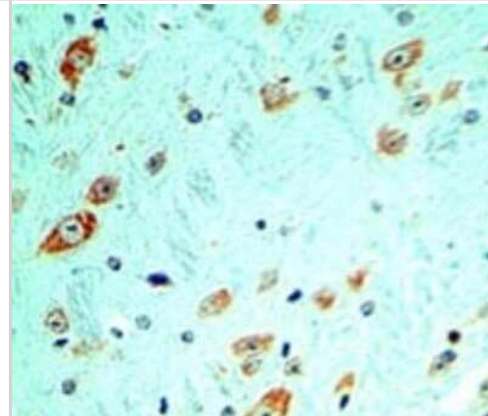
Flow Cytometry: TLR5 Antibody (19D759.2) - BSA Free [NBP2-24787] - Flow analysis of TLR5 in mouse MC38 cells. Image from verified customer review.



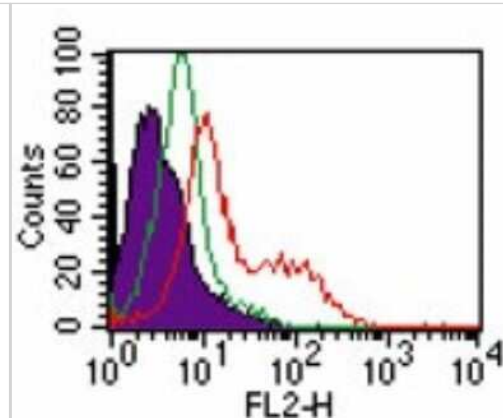
Immunohistochemistry-Paraffin: TLR5 Antibody (19D759.2) [NBP2-24787] - Human skin stained with TLR5 antibody (5 ug/ml), peroxidase-conjugate and DAB chromogen.



Immunohistochemistry-Paraffin: TLR5 Antibody (19D759.2) [NBP2-24787] - Analysis of TLR5 in FFPE mouse brain tissue using TLR5 antibody at 5 ug/ml.



Flow Cytometry: TLR5 Antibody (19D759.2) [NBP2-24787] - Intracellular flow analysis of TLR5 in human monocytes using 0.5 ug of TLR5 antibody. Shaded histogram represents cells without antibody; green represents isotype control; red represents TLR5 antibody. this antibody secondary antibody was used in this test.



Publications

Hiltunen N, Kemi N, Väyrynen JP et al. Toll-like receptors 1-9 in small bowel neuroendocrine tumors-Clinical significance and prognosis PLoS One 2024-05-06 [PMID: 38709790]

Qiu C, Wang J, Zhu L et al. Improving the ex vivo expansion of human tumor-reactive CD8 + T cells by targeting toll-like receptors Frontiers in Bioengineering and Biotechnology 2022-10-31 [PMID: 36394017] (Flow Cytometry, Block/Neutralize)

Lanki M, Seppanen H, Mustonen H et al. Toll-like receptor 1 predicts favorable prognosis in pancreatic cancer PLoS ONE 2019-07-17 [PMID: 31314777]

Eskuri M, Kemi N, Helminen O et al. Toll-like receptors 1, 2, 4, 5, and 6 in gastric cancer Virchows Archiv : an international journal of pathology 2023-09-26 [PMID: 37750927]

Lanki M Prognostic and Differential Diagnostic Biomarkers in Pancreatic Ductal Adenocarcinoma Thesis 2023-01-01

Makinen, LK. Matrix metalloproteinases and toll-like receptors in early-stage oral tongue squamous cell carcinoma J Oral Pathol Med 2018-05-11 [PMID: 29747237]

Beilmann-Lehtonen I, HagstrOm J, Mustonen H et al. High Tissue TLR5 Expression Predicts Better Outcomes in Colorectal Cancer Patients Oncology 2021-06-17 [PMID: 34139707]

Kairaluoma V, Kemi N, Huhta H et al. Toll-like receptor 5 and 8 in hepatocellular carcinoma APMIS : acta pathologica, microbiologica, et immunologica Scandinavica 2021-05-05 [PMID: 33950532]

Kitaura A, Nishinaka T, Hamasaki S, et al. Advanced glycation end-products reduce lipopolysaccharide uptake by macrophages PloS one 2021-01-25 [PMID: 33493233]

Shang L, Deng D, Roffel S, Gibbs S Differential influence of Streptococcus mitis on host response to metals in reconstructed human skin and oral mucosa Contact Derm. 2020-07-16 [PMID: 32677222] (WB, Human)

Kylmä AK, Tolvanen TA, CarpEn T et al. Elevated TLR5 expression in vivo and loss of NF-kappa B activation via TLR5 in vitro detected in HPV-negative oropharyngeal squamous cell carcinoma Exp. Mol. Pathol. 2020-03-30 [PMID: 32240617] (IF/IHC, Human)

Kasurinen A, Hagstrom J, Laitinen A et al. Evaluation of toll-like receptors as prognostic biomarkers in gastric cancer: high tissue TLR5 predicts a better outcome Sci Rep [PMID: 31467388] (IHC-P, Human)

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Products Related to NBP2-24787

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)
NBP2-24783	TLR5 Antibody (19D759.2) [PE]

Limitations

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