Product Datasheet

Peripheral Node Addressin Antibody (MECA-79R) - BSA Free

NBP2-78792

Unit Size: 0.5 mg

Store at -20 °C.

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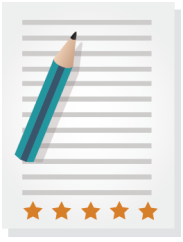
Updated 7/28/2025 v.20.1



NBP2-78792

Peripheral Node Addressin Antibody (MECA-79R) - BSA Free

Product Information

Unit Size	0.5 mg
Concentration	1.0 mg/ml
Storage	Store at -20 °C.
Clonality	Monoclonal
Clone	MECA-79R
Preservative	0.02% Sodium Azide
Isotype	IgG1
Purity	Protein A or G purified
Buffer	PBS

Product Description

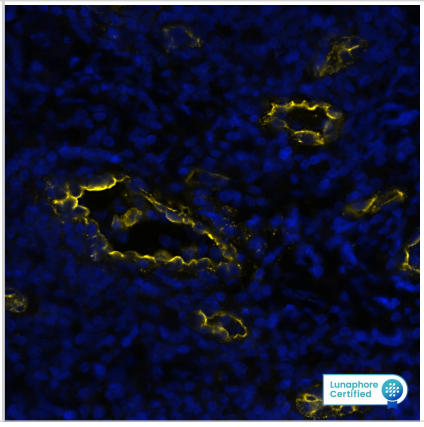
Description	Clone MECA-79R (rat IgG1) is a recombinant version of the original clone MECA-79 (rat IgM).
Host	Rat
Species	Human, Mouse
Immunogen	Mouse lymph node stromal cells

Product Application Details

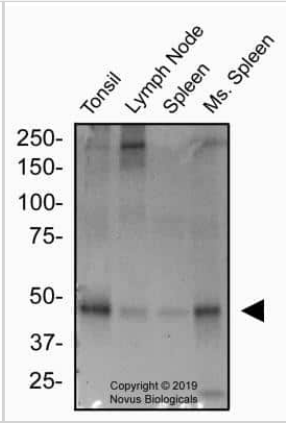
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, In vivo assay, Multiplex Immunofluorescence
Recommended Dilutions	Western Blot 1:100-1:2000, Immunohistochemistry 1:100-1:500, Immunocytochemistry/ Immunofluorescence reported in scientific literature (PMID 31278331), Immunohistochemistry-Paraffin 1:100-1:500, Immunohistochemistry-Frozen 1:100-1:500, In vivo assay reported in scientific literature (PMID 30277476), Multiplex Immunofluorescence 1:50
Application Notes	Additional reported application of in vitro and in vivo blocking of cell adhesion.

Images

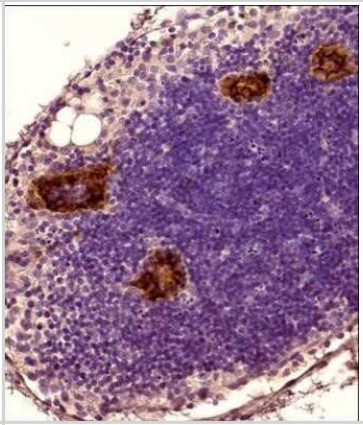
Peripheral Node Addressin was detected in immersion fixed paraffin-embedded sections of human Tonsil using Rat Anti-Human Peripheral Node Addressin (MECA-79R), Monoclonal Antibody (Catalog #NBP2-78792) at 1:50 dilution at 37° Celsius for 4 minutes. Before incubation with the primary antibody, tissue underwent an all-in-one dewaxing and antigen retrieval preprocessing using PreTreatment Module (PT Module) and Dewax and HIER Buffer H (pH 9; Epredia Catalog # TA-999-DHBH). Tissue was stained using the Alexa Fluor™ 647 Goat anti-Rat IgG Secondary Antibody at 1:200 at 37 ° Celsius for 2 minutes. (Yellow; Lunaphore Catalog # DR647RT) and counterstained with DAPI (blue; Lunaphore Catalog # DR100). Specific staining was localized to endothelial cells. Protocol available in COMET™ Panel Builder.



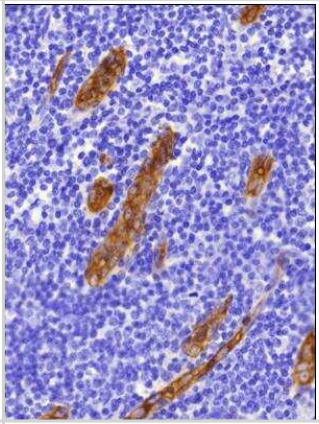
Western Blot: Peripheral Node Addressin Antibody (MECA-79R) [NBP2-78792] - Total protein from human Tonsil, Lymph node, Spleen and mouse Spleen was separated on a 7.5% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 2.0 ug/ml anti-PNAd in blocking buffer and detected with an anti-rat HRP secondary antibody using West Pico PLUS chemiluminescence detection reagent.



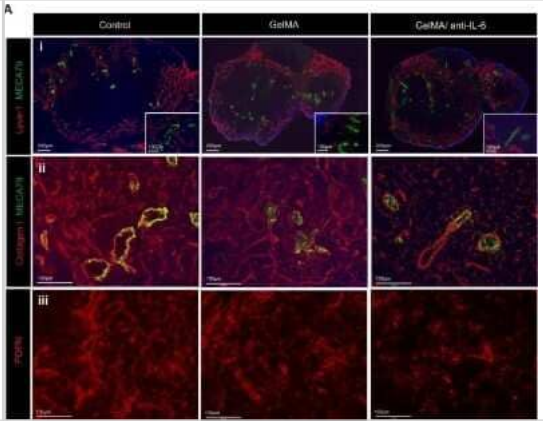
Immunohistochemistry-Paraffin: Peripheral Node Addressin Antibody (MECA-79R) [NBP2-78792] - Analysis of FFPE mouse adipose tissue section (with lymph node areas) using Peripheral Node Addressin antibody (clone MECA-79) at 1:100. The staining was developed with HRP-DAB detection method and the counterstaining was performed using hematoxylin. This Peripheral Node Addressin antibody generated a strong and specific staining of MECA-79 antigen in the the cytoplasm and the membranes of high endothelial venules (HEVs) aka peripheral lymph node addressin (PNAd) in lymph node areas of tested adipose tissue section.



Immunohistochemistry-Paraffin: Peripheral Node Addressin Antibody (MECA-79R) [NBP2-78792] - Analysis of FFPE human tonsil tissue section using Peripheral Node Addressin antibody (clone MECA-79R) at 1:100. The staining was developed with HRP-DAB detection method and the counterstaining was performed using hematoxylin.



Immunohistochemistry: Peripheral Node Addressin Antibody (MECA-79R) [NBP2-78792] - Local release of anti-IL-6 from IMB suppresses LN fibrosis. The skin allografts were harvested at 7 days post-transplantation. Lymphatic vessel expansion (Lyve-1+) and HEV elongation (MECA79+) were similar between all groups. Dense staining of collagen I and PDPN was seen in DLNs harvested from control and GelMA group compared to those from GelMA/anti-IL-6 group. (representative images from 4 different mice per group). Image collected and cropped by CiteAb from the following publication (https://www.nature.com/articles/s41598-019-42349-w), licensed under a CC-BY license.



Publications

Liu S, Wu T, Luo D et al. Interferon-responsive HEVs drive tumor tertiary lymphoid structure formation and predict immunotherapy response in nasopharyngeal carcinoma. Cell Reports Medicine 2025-06-17 [PMID: 40543508]

Zhao J, Jung S, Li X et al. Delivery of costimulatory blockade to lymph nodes promotes transplant acceptance in mice Journal of Clinical Investigation 2022-12-15 [PMID: 36519543]

Gavish A, Tyler M, Greenwald AC et al. Hallmarks of transcriptional intratumour heterogeneity across a thousand tumours Nature 2023-06-01 [PMID: 37258682]

Park JA, Espinosa-Cotton M, Guo HF et al. Targeting tumor vasculature to improve antitumor activity of T cells armed ex vivo with T cell engaging bispecific antibody Journal for immunotherapy of cancer 2023-03-01 [PMID: 36990507] (IHC, Mouse)

Quigley LT, Pang L, Tavancheh E et al. Protocol for investigating tertiary lymphoid structures in human and murine fixed tissue sections using Opal□-TSA multiplex immunohistochemistry STAR protocols 2023-01-10 [PMID: 36633948] (IHC-P, Human)

Details:
Dilution used in IHC-P 1:100

Smith KJ, Minns D, McHugh BJ Et al. The antimicrobial peptide cathelicidin drives development of experimental autoimmune encephalomyelitis in mice by affecting Th17 differentiation PLoS Biol 2022-08-26 [PMID: 36026478]

Details:
Citation using the Non-Recombinant Monoclonal version of this antibody.

Li Y, Amaladas N, O'Mahony M et al. Treatment with a VEGFR-2 antibody results in intra-tumor immune modulation and enhances anti-tumor efficacy of PD-L1 blockade in syngeneic murine tumor models PloS one 2022-07-18 [PMID: 35849586] (IHC-P, Mouse)

Pinkard, H, Baghdassarian, H Et al. Learned adaptive multiphoton illumination microscopy for large-scale immune response imaging. Nat Commun 2021-03-26 [PMID: 33772022]

Li X, Zhao J, Kasinath V et al. Lymph node fibroblastic reticular cells deposit fibrosis-associated collagen following organ transplantation J. Clin. Invest. 2020-06-29 [PMID: 32597832] (IHC-Fr, Human)

Details:
Citation using the Non-Recombinant Monoclonal format of this antibody.

Helmink BA, Reddy SM, Gao J et al. B cells and tertiary lymphoid structures promote immunotherapy response Nature. [PMID: 31942075] (MI, Human)

He B, Johansson-Percival A, Backhouse J et al. Remodeling of Metastatic Vasculature Reduces Lung Colonization and Sensitizes Overt Metastases to Immunotherapy Cell Rep. [PMID: 31968248] (ICC/IF, Mouse, Human)

Matsubara S, Seki M, Suzuki S et al. Tertiary lymphoid organs in the inflammatory myopathy associated with PD-1 inhibitors J Immunother Cancer. 2019-09-18 [PMID: 31533865] (IF/IHC, Human)

Details:
Citation used the Non-Recombinant Monoclonal format of this antibody.

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Products Related to NBP2-78792

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NB7115	Goat anti-Rat IgG (H+L) Secondary Antibody [HRP]
DDXCR01	Rat IgG1 Isotype Control

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