Anti-Human/Mouse High Endothelial Venule Marker Alexa Fluor® 488

Catalog Number: 53-6036
Also known as: HEV, PNAd, MECA-79
RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Contents: Anti-Human/Mouse High Endothelial Venule Marker Alexa Fluor® 488
REF **Catalog Number:** 53-6036
Clone: MECA-79
Concentration: 0.5 mg/mL
Host/Isotype: Rat IgM

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C. Do not freeze. Light-sensitive material.
LOT **Batch Code:** Refer to vial
Use By: Refer to vial

Description

This MECA-79 monoclonal antibody recognizes a sulfated carbohydrate epitope present on human and mouse high endothelial venules (HEVs) called peripheral lymph node addressin (PNAd). This glycoprotein is expressed on the luminal surface and in the cytoplasm of HEVs in lymphoid tissues, including peripheral and mesenteric lymph nodes and, to a lesser extent, Peyer's patches. The MECA-79 antigen has also been detected on follicular B cells in the spleen and appendix in humans, as well as at sites of chronic inflammation. Post-capillary venules or large vessels in the spleen, thymus, or non-lymphoid tissues do not express the MECA-79 antigen and thus cannot be detected with this antibody. This addressin is involved in lymphocyte infiltration and adhesion into secondary lymphoid tissues.

The MECA-79 antibody has been reported to inhibit CD62L (L-selectin)-dependent lymphocyte emigration to HEVs and adhesion in lymph nodes and tonsils.

Applications Reported

This MECA-79 antibody has been reported for use in flow cytometric analysis and immunohistochemical staining of formalin-fixed paraffin embedded tissue sections (IHC-P).

Applications Tested

This MECA-79 antibody has been tested by immunohistochemistry on formalin-fixed paraffin embedded (FFPE) human tonsil with low pH antigen retrieval at less than or equal to 20 ug/mL. It is recommended that the anitbody be titrated for optimal performance in the assay of interest.

References

Sinha RK, Yang G, Alexander C, Mage RG. De novo expression of MECA-79 glycoprotein-determinant on developing B lymphocytes in gut-associated lymphoid tissues. Immunology. 2006 Dec;119(4):461-9. (**MECA-79**, FC, IHC-Fr)

Girard JP, Springer TA. High endothelial venules (HEVs): specialized endothelium for lymphocyte migration. Immunol Today. 1995 Sep;16(9):449-57. Review.

Hemmerich S, Butcher EC, Rosen SD. Sulfation-dependent recognition of high endothelial venules (HEV)-ligands by L-selectin and MECA 79, and adhesion-blocking monoclonal antibody. J Exp Med. 1994 Dec 1;180(6):2219-26. (**MECA-79**, WB)

Streeter PR, Rouse BT, Butcher EC. Immunohistologic and functional characterization of a vascular addressin involved in lymphocyte homing into peripheral lymph nodes. J Cell Biol. 1988 Nov;107(5):1853-62. (**MECA-79**, IHC-Fr, FA)

Related Products

00-4953 IHC /ICC Blocking Buffer - Low Protein
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00-4958 Fluoromount-G™

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53-4341 Rat IgM Isotype Control Alexa Fluor® 488

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