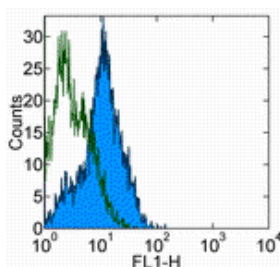


Anti-Mouse CD54 (ICAM-1) Purified

Catalog Number: 14-0542

Also Known As: Intercellular adhesion molecule-1, ICAM1

RUO: For Research Use Only



Staining of C57Bl/6 splenocytes with 0.25 ug of Rat IgG2a Istotype Control Purified (cat. 14-4321) (open histogram) or 0.25 ug of Anti-Mouse CD54 (ICAM-1) Purified (filled histogram) followed by Anti-Rat IgG FITC (cat. 11-4811). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Mouse CD54 (ICAM-1) Purified

REF **Catalog Number:** 14-0542

Clone: eBioKAT-1 (KAT-1, KAT1)

Concentration: 0.5 mg/mL

Host/Isotype: Rat IgG2a, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer



Temperature Limitation: Store at 2-8°C.



Batch Code: Refer to Vial



Use By: Refer to Vial



Caution, contains Azide

Description

The eBioKAT-1 monoclonal antibody reacts with mouse CD54 (ICAM-1), which is a 95 kDa member of the immunoglobulin superfamily. CD54 is expressed at low levels on leukocytes and high endothelial venules, and expression increases in response to inflammatory cytokines. ICAM-1 binds to LFA-1 and this interaction is required for the transendothelial migration of T cells. ICAM-1-deficient mice are viable, however the migration of leukocytes to sites of inflammation is reduced leading to impaired immune and inflammatory responses. Based on the regulated expression of ICAM-1, it has been suggested that ICAM-1 may increase leukocyte extravasation at sites of inflammation, whereas the constitutively high expression of ICAM-2 mediates leukocyte traffic into non-inflamed tissue. The eBioKAT-1 monoclonal antibody recognizes a different epitope than the YN1/1.7.4 monoclonal antibody.

Applications Reported

This eBioKAT-1 (KAT-1, KAT1) antibody has been reported for use in flow cytometric analysis, immunoprecipitation, immunohistology staining of frozen tissue sections, and immunohistology staining of paraffin embedded tissue sections. (Please use Functional Grade purified eBioKAT-1 (KAT-1, KAT1), cat. 16-0542, in functional assays.)

Applications Tested

This eBioKAT-1 (KAT-1, KAT1) antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

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Arai K, Sunamura M, Wada Y, Takahashi M, Kobari M, Kato K, Yagita H, Okumura K, Matsuno S. Preventing effect of anti-ICAM-1 and anti-LFA-1 monoclonal antibodies on murine islet allograft rejection. *Int J Pancreatol.* 1999 Aug;26(1):23-31.

Kasper M, Koslowski R, Luther T, Schuh D, Müller M, Wenzel KW. Immunohistochemical evidence for loss of ICAM-1 by alveolar epithelial cells in pulmonary fibrosis. *Histochem Cell Biol.* 1995 Nov;104(5):397-405. (**KAT-1**, IHC paraffin)

Seko Y, Matsuda H, Kato K, Hashimoto Y, Yagita H, Okumura K, Yazaki Y. Expression of intercellular adhesion molecule-1 in murine hearts with acute myocarditis caused by coxsackievirus B3. *J Clin Invest.* 1993 Apr;91(4):1327-36. (**KAT-1**, FA, PubMed)

Related Products

11-4811 Anti-Rat IgG FITC

14-4321 Rat IgG2a K Isotype Control Purified

16-0541 Anti-Mouse CD54 (ICAM-1) Functional Grade Purified (YN1/1.7.4)

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