Anti-Rat CD49d (Integrin alpha 4) APC

Catalog Number: 17-1490
Also known as: Integrin alpha-4, ITGA4

Staining of rat splenocytes with Anti-Rat CD45R (B220) FITC (cat. 11-0460) and 0.25 ug of Mouse IgG2a K Isotype Control APC (cat. 17-4724) (left) or 0.25 ug of Anti-Rat CD49d (Integrin alpha 4) APC (right). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Rat CD49d (Integrin alpha 4) APC
Catalog Number: 17-1490
Clone: MRa4-1
Concentration: 0.2 mg/mL
Host/Isotype: Mouse IgG2a, kappa

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.
Batch Code: Refer to vial
Use By: Refer to vial
Contains sodium azide

Description

The MRa4-1 monoclonal antibody reacts with CD49d, which is also known as the integrin alpha 4 subunit. This 150-kDa cell surface protein is expressed by thymocytes, peripheral lymphocytes, monocytes, and eosinophils in complex with either integrin beta1 or integrin beta7. Outside of the immune system, CD49d is also expressed on mast cells, neural crest cells, retinal cells, and dorsal root ganglion neurons. Integrins are responsible for lymphocyte homing to Peyer’s patches and mesenteric lymph nodes, as well as neural development and regeneration. Several ligands have been reported for the integrin α4β1 complex, including VCAM-1 (CD106) and fibronectin.

The MRa1-4 antibody has been reported to inhibit fibronectin binding and lymphocyte migration.

Applications Reported

This MRa4-1 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This MRa4-1 antibody has been tested by flow cytometric analysis of rat 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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References


Tsuzuki Y, Miura S, Suematsu M, Kurose I, Shigematsu T, Kimura H, Higuchi H, Serizawa H, Yagita H, Okumura K,

Not for further distribution without written consent.
Copyright © 2000-2012 eBioscience, Inc.
Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.ebioscience.com • info@ebioscience.com
Anti-Rat CD49d (Integrin alpha 4) APC
Catalog Number: 17-1490
Also known as: Integrin alpha-4, ITGA4


Related Products
11-0460 Anti-Rat CD45R (B220) FITC (HIS24)
12-1030 Anti-Rat CD103 (Integrin alpha E) PE (OX62)
17-4724 Mouse IgG2a K Isotype Control APC

Not for further distribution without written consent.
Copyright © 2000-2012 eBioscience, Inc.
Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.ebioscience.com • info@ebioscience.com