

Product datasheet

Anti-Integrin alpha 4 antibody [R1-2] (Phycoerythrin)
ab112440

1 Image

Overview

| | |
|----------------------------|---|
| Product name | Anti-Integrin alpha 4 antibody [R1-2] (Phycoerythrin) |
| Description | Rat monoclonal [R1-2] to Integrin alpha 4 (Phycoerythrin) |
| Conjugation | Phycoerythrin. Ex: 488nm, Em: 575nm |
| Tested applications | Suitable for: Flow Cyt |
| Species reactivity | Reacts with: Mouse |
| Immunogen | Mouse Peyers Patch HEV binding lymphoma line (TK1). |
| Positive control | Mouse TK1 cell line (Strains BALB/c, C57BL/6, C3H/He, CBA/J and AKR). |

Properties

| | |
|-----------------------------|--|
| Form | Liquid |
| Storage instructions | Shipped at 4°C. Store at +4°C. |
| Storage buffer | Preservative: 0.02% Sodium azide Constituents: 99% PBS, 0.5% BSA |
| Purity | Protein G purified |
| Purification notes | ab112440 was purified from ascitic fluid via Protein G Chromatography. |
| Clonality | Monoclonal |
| Clone number | R1-2 |
| Myeloma | P3x63-Ag8.653 |
| Isotype | IgG2b |

Applications

Our [Abpromise guarantee](#) covers the use of **ab112440** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|-------------|-----------|------------------------------------|
| Flow Cyt | | Use 1µg for 10 ⁶ cells. |

Target

Function Integrins alpha-4/beta-1 (VLA-4) and alpha-4/beta-7 are receptors for fibronectin. They recognize one or more domains within the alternatively spliced CS-1 and CS-5 regions of fibronectin. They are also receptors for VCAM1. Integrin alpha-4/beta-1 recognizes the sequence Q-I-D-S in VCAM1. Integrin alpha-4/beta-7 is also a receptor for MADCAM1. It recognizes the sequence L-D-T in MADCAM1. On activated endothelial cells integrin VLA-4 triggers homotypic aggregation for most VLA-4-positive leukocyte cell lines. It may also participate in cytolytic T-cell interactions with target cells.

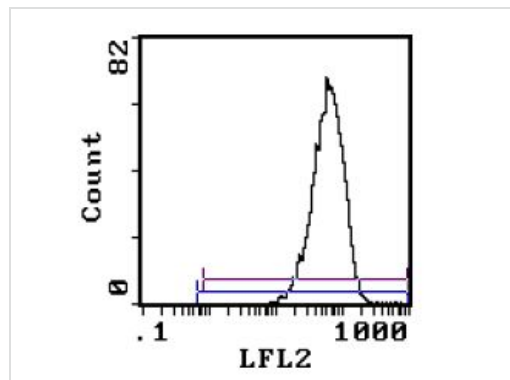
Sequence similarities Belongs to the integrin alpha chain family.
Contains 7 FG-GAP repeats.

Domain The SG1 motif is involved in binding to chondroitin sulfate glycosaminoglycan and cell adhesion.

Post-translational modifications Phosphorylation on Ser-1027 inhibits PXN binding.

Cellular localization Membrane.

Images



ab112440 at 1.0 µg/10⁶ cells detecting Integrin alpha 4 in Balb/c Mouse TK1 cell line by Flow Cytometry. 100% more of the cells were stained than in the control (PE Rat IgG2b).

Flow Cytometry - Integrin alpha 4 antibody [R1-2]
(Phycoerythrin) (ab112440)

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