

Product datasheet

Anti-Integrin alpha 4 antibody [PS/2] (Phycoerythrin)  
ab24854

1 Image

Overview

<b>Product name</b>	Anti-Integrin alpha 4 antibody [PS/2] (Phycoerythrin)
<b>Description</b>	Rat monoclonal [PS/2] to Integrin alpha 4 (Phycoerythrin)
<b>Host species</b>	Rat
<b>Conjugation</b>	Phycoerythrin. Ex: 488nm, Em: 575nm
<b>Specificity</b>	This antibody is specific to CD49d, the alpha4 chain of the VLA4 integrin heterodimer.
<b>Tested applications</b>	<b>Suitable for:</b> Functional Studies, IP, Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human
<b>Immunogen</b>	The details of the immunogen for this antibody are not available.

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C.
<b>Storage buffer</b>	Preservative: 0.09% Sodium Azide Constituents: 16% Sucrose, PBS; stabilizing agent
<b>Purity</b>	Affinity purified
<b>Purification notes</b>	Purified from ascites
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	PS/2
<b>Isotype</b>	IgG2b
<b>Light chain type</b>	kappa

Applications

Our [Abpromise guarantee](#) covers the use of **ab24854** 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
Functional Studies		Use at an assay dependent concentration. Studies of cell-cell interaction and tumor cell metastasis and adhesion, Inhibition of lymphopoiesis in Whitlock-Witte long-term bone marrow cultures and Retardation of myelopoiesis in Dexter-type cultures.
IP		Use at an assay dependent concentration.
Flow Cyt		Use 0.2µg for 10 <sup>6</sup> cells. <a href="#">ab136585</a> - Rat monoclonal IgG2b, is suitable for use as an isotype control with this antibody.

## 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-ID-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.

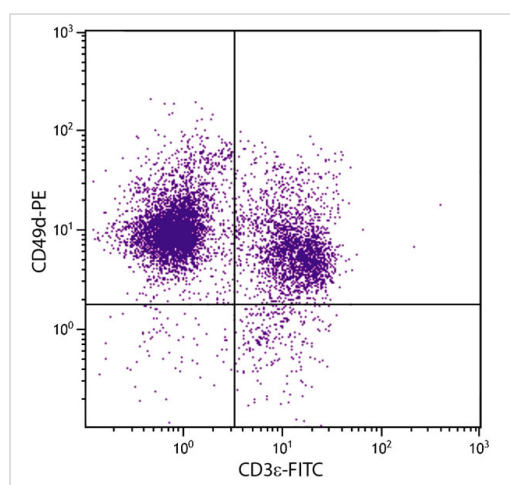
**Sequence similarities** Belongs to the integrin alpha chain family.  
Contains 7 FG-GAP repeats.

**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



Flow cytometry analysis staining Integrin alpha 4 in mouse splenocytes using ab24854 at a dilution of 0.1 µg/10<sup>6</sup> cells.

Flow Cytometry - Anti-Integrin alpha 4 antibody  
[PS/2] (Phycoerythrin) (ab24854)

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