

Product datasheet

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

1 Image

Overview

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<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.
<b>General notes</b>	Abcam is committed to meeting high standards of ethical manufacturing and has decided to discontinue this product by June 2019 as it has been generated by the ascites method. We are sorry for any inconvenience this may cause.

Properties

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<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

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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.

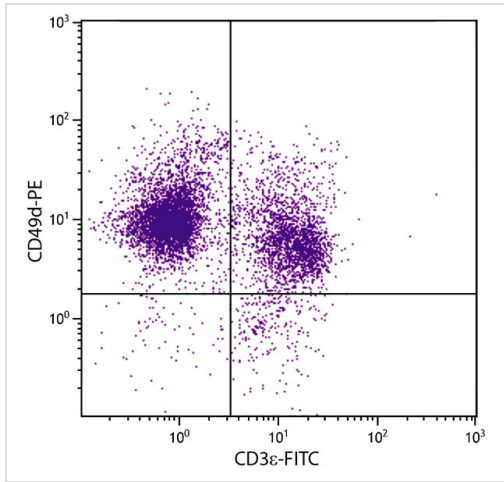
### Post-translational modifications

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)

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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