

## Product datasheet

# Anti-Integrin alpha 4/CD49D antibody ab226362

[1 Image](#)

### Overview

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<b>Product name</b>	Anti-Integrin alpha 4/CD49D antibody
<b>Description</b>	Rabbit polyclonal to Integrin alpha 4/CD49D
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide within Human Integrin alpha 4/CD49D aa 982-1032. The exact sequence is proprietary. Database link: <a href="#">P13612</a>
<b>Positive control</b>	WB: Jurkat whole cell lysate.
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7 Preservative: 0.09% Sodium azide Constituent: Tris citrate/phosphate
<b>Purity</b>	pH 7 to 8 Immunogen affinity purified
<b>Purification notes</b>	ab226362 was affinity purified using an epitope specific to Integrin alpha 4/CD49D immobilized on solid support.
<b>Clonality</b>	Polyclonal

Isotype

IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab226362 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
WB		1/2000 - 1/10000. Predicted molecular weight: 115 kDa.

## 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.

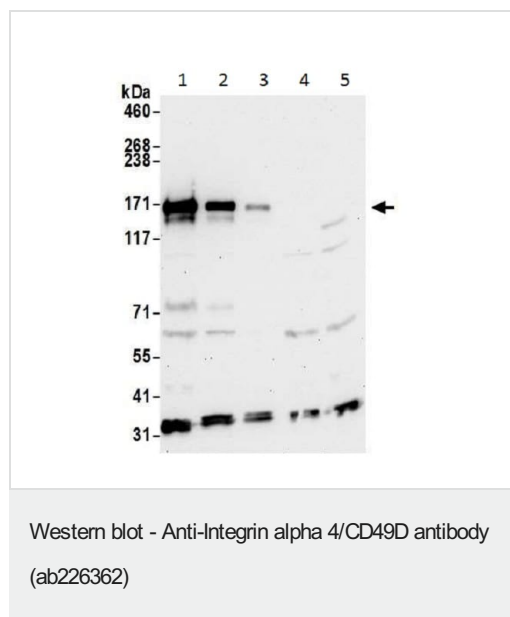
### Post-translational modifications

Phosphorylation on Ser-1027 inhibits PXN binding.

### Cellular localization

Membrane.

## Images



**All lanes** : Anti-Integrin alpha 4/CD49D antibody (ab226362) at 0.1 µg/ml

**Lane 1** : Jurkat (Human T cell leukemia cell line from peripheral blood) whole cell lysate at 50 µg

**Lane 2** : Jurkat (Human T cell leukemia cell line from peripheral blood) whole cell lysate at 15 µg

**Lane 3** : Jurkat (Human T cell leukemia cell line from peripheral blood) whole cell lysate at 5 µg

**Lane 4** : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate at 50 µg

**Lane 5** : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate at 50 µg

Developed using the ECL technique.

**Predicted band size:** 115 kDa

**Exposure time:** 30 seconds

Cell lysates were prepared using NETN lysis buffer.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

### **Our Abpromise to you: Quality guaranteed and expert technical support**

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

### **Terms and conditions**

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