

## Product datasheet

# Anti-Integrin alpha 4/CD49D (phospho S988) antibody [EPR2343] ab75760

Recombinant RabMAb

★★★★★ 1 Abreviews 1 References 4 Images

### Overview

<b>Product name</b>	Anti-Integrin alpha 4/CD49D (phospho S988) antibody [EPR2343]
<b>Description</b>	Rabbit monoclonal [EPR2343] to Integrin alpha 4/CD49D (phospho S988)
<b>Host species</b>	Rabbit
<b>Specificity</b>	<p>ab75760 only detects Integrin alpha 4/CD49D phosphorylated on Serine 988 of the mature protein. S988 corresponds to S1021 of the sequence with the 33 aa signal peptide and S1027 of the precursor shown in Figure 4 of PMID: 8436405.</p> <p>The antibody detects the mature chain (180 kDa), the precursor (140 kDa) and the cleaved C terminal (70 kDa).</p>
<b>Tested applications</b>	<p><b>Suitable for:</b> WB</p> <p><b>Unsuitable for:</b> ICC/IF or IHC-P</p>
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	THP1 cell lysates
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

### Properties

<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. Stable for 12 months at -20°C.

<b>Storage buffer</b>	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR2343
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab75760 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
<b>WB</b>	★★★★★ (1)	1/500 - 1/2000. Predicted molecular weight: 150 kDa.

**Application notes** Is unsuitable for ICC/IF or IHC-P.

## 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.

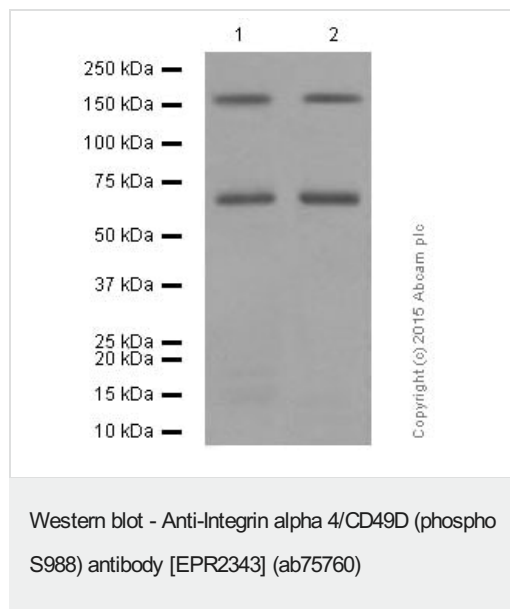
**Sequence similarities** Belongs to the integrin alpha chain family.  
Contains 7 FG-GAP repeats.

**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 (phospho S988) antibody [EPR2343] (ab75760) at 1/1000 dilution (purified)

**Lane 1 :** Rat spleen tissue lysate

**Lane 2 :** Mouse spleen tissue lysate

Lysates/proteins at 10 µg per lane.

### Secondary

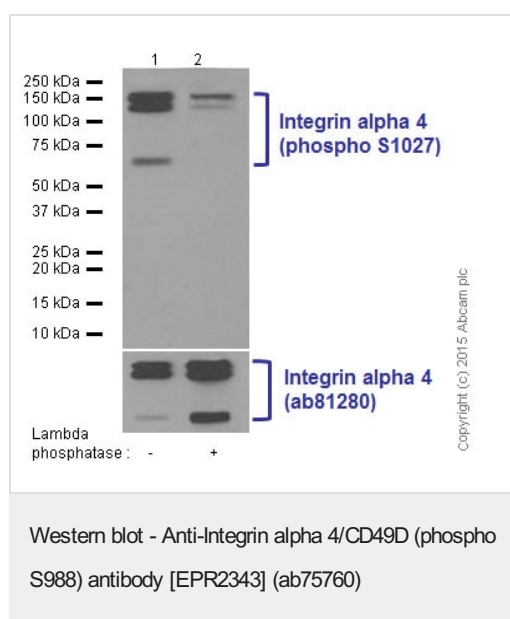
**All lanes :** HRP goat anti-rabbit IgG (H+L) at 1/1000 dilution

**Predicted band size:** 150 kDa

**Observed band size:** 150,70 kDa

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



**All lanes :** Anti-Integrin alpha 4/CD49D (phospho S988) antibody [EPR2343] (ab75760) at 1/5000 dilution (purified)

**Lane 1 :** untreated Jurkat lysate

**Lane 2 :** Jurkat cell lysate treated with Lambda phosphatase

Lysates/proteins at 10 µg per lane.

### Secondary

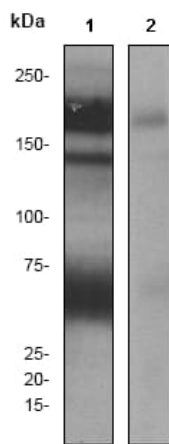
**All lanes :** HRP goat anti-rabbit IgG (H+L) at 1/50000 dilution

**Predicted band size:** 150 kDa

**Observed band size:** 140,150,70 kDa

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



Western blot - Anti-Integrin alpha 4/CD49D (phospho S988) antibody [EPR2343] (ab75760)

**All lanes :** Anti-Integrin alpha 4/CD49D (phospho S988) antibody [EPR2343] (ab75760) at 1/2000 dilution

**Lane 1 :** THP1 cell lysates, untreated

**Lane 2 :** THP1 cell lysates, with Lambda Phosphatase

Lysates/proteins at 10 µg per lane.

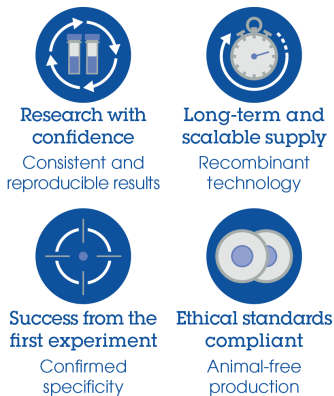
#### Secondary

**All lanes :** goat anti-rabbit HRP at 1/2000 dilution

**Predicted band size:** 150 kDa

**Observed band size:** 140,180,70 kDa

#### Why choose a recombinant antibody?



Anti-Integrin alpha 4/CD49D (phospho S988) antibody [EPR2343] (ab75760)

**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

- 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**

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors