

## 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 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> <p><b>We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.</b></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.

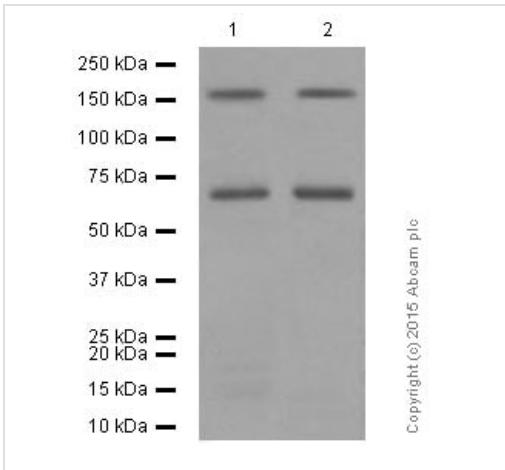
Application	Abreviews	Notes
WB	★★★★★ (1)	1/500 - 1/2000. Predicted molecular weight: 150 kDa.

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

## Target

<b>Function</b>	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.
<b>Sequence similarities</b>	Belongs to the integrin alpha chain family. Contains 7 FG-GAP repeats.
<b>Domain</b>	The SG1 motif is involved in binding to chondroitin sulfate glycosaminoglycan and cell adhesion.
<b>Post-translational modifications</b>	Phosphorylation on Ser-1027 inhibits PXN binding.
<b>Cellular localization</b>	Membrane.

## Images



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 1/1000 dilution (purified)

**Lane 1 :** rat spleen lysate

**Lane 2 :** mouse spleen lysate

Lysates/proteins at 10 µg per lane.

**Secondary**

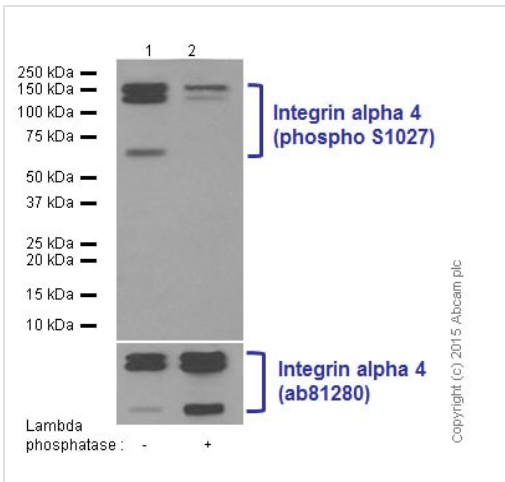
**All lanes :** HRP goat anti-rabbit IgG (H+L) at 1/1000 dilution

**Predicted band size:** 150 kDa

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

Blocking buffer: 5% NFDm/TBST

Dilution buffer: 5% NFDm/TBST



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 1/5000 dilution (purified)

**Lane 1 :** untreated Jurkat lysate

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

Lysates/proteins at 10 µg per lane.

**Secondary**

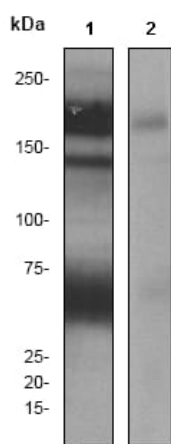
**All lanes :** HRP goat anti-rabbit IgG (H+L) at 1/50000 dilution

**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?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

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"

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