

### Anti-Integrin alpha 6 antibody [EPR5578] ab124924

敲除验证
重组
RabMAb

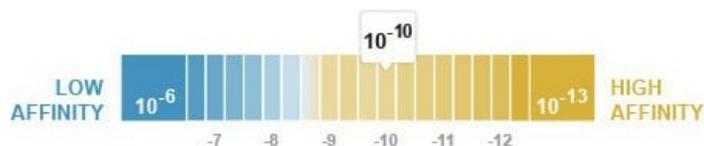
★★★★★
[3 Abreviews](#)
[5 References](#)
[5 图像](#)

#### 概述

<b>产品名称</b>	Anti-Integrin alpha 6抗体[EPR5578]
<b>描述</b>	兔单克隆抗体[EPR5578] to Integrin alpha 6
<b>宿主</b>	Rabbit
<b>经测试应用</b>	<b>适用于:</b> WB <b>不适用于:</b> Flow Cyt, ICC/IF or IHC-P
<b>种属反应性</b>	<b>与反应:</b> Human
<b>免疫原</b>	Synthetic peptide within Human Integrin alpha 6 aa 100-200. The exact sequence is proprietary. Database link: <a href="#">P23229</a>
<b>阳性对照</b>	SW480, HEK293, JAR, HT1376, and Human platelet lysates; Human kidney tissue.
<b>常规说明</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>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

#### 性能

<b>形式</b>	Liquid
<b>存放说明</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>解离常数 (K<sub>D</sub>)</b>	K <sub>D</sub> = 2.29 x 10 <sup>-10</sup> M



[Learn more about K<sub>D</sub>](#)

存储溶液	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 50% Glycerol (glycerin, glycerine), 0.05% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR5578
同种型	IgG

应用

**The Abpromise guarantee** [Abpromise™](#) 承诺保证使用 ab124924 于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	★ ★ ★ ★ ★ (2)	1/1000 - 1/10000. Detects a band of approximately 126 kDa (predicted molecular weight: 126 kDa).

应用说明 Is unsuitable for Flow Cyt, ICC/IF or IHC-P.

靶标

**功能** Integrin alpha-6/beta-1 is a receptor for laminin on platelets. Integrin alpha-6/beta-4 is a receptor for laminin in epithelial cells and it plays a critical structural role in the hemidesmosome (By similarity). ITGA6:ITGB4 binds to NRG1 (via EGF domain) and this binding is essential for NRG1-ERBB signaling (PubMed:20682778). ITGA6:ITGB4 binds to IGF1 and this binding is essential for IGF1 signaling (PubMed:22351760).

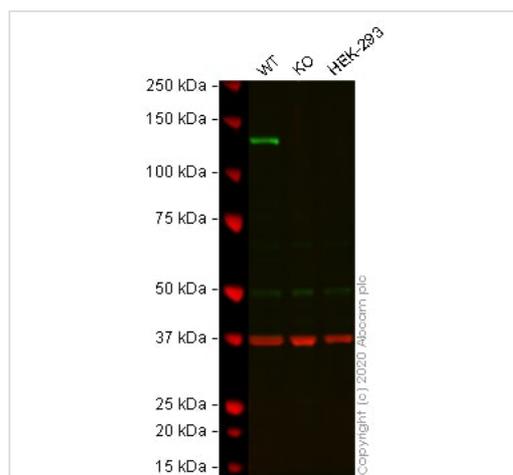
**组织特异性** Integrin alpha-6/beta-4 is predominantly expressed by epithelia. Isoforms containing segment X1 are ubiquitously expressed. Isoforms containing segment X1X2 are expressed in heart, kidney, placenta, colon, duodenum, myoblasts and myotubes, and in a limited number of cell lines; they are always coexpressed with the ubiquitous isoform containing segment X1. In some tissues (e.g. Salivary gland), isoforms containing cytoplasmic segment A and isoforms containing segment B are detected while in others, only isoforms containing one cytoplasmic segment are found (segment A in epidermis and segment B in kidney).

**疾病相关** Epidermolysis bullosa letalis, with pyloric atresia

**序列相似性** Belongs to the integrin alpha chain family.  
Contains 7 FG-GAP repeats.

**翻译后修饰** Isoforms containing segment A, but not segment B, are the major targets for PMA-induced phosphorylation. Phosphorylation occurs on 'Ser-1103' of isoform alpha-6X1X2A. Phosphorylation is not required for the induction of integrin alpha-6A/beta-1 high affinity but may reduce the affinity for ligand.  
In invasive prostate cancer ITGA6 undergoes PLAU-mediated cleavage at residues Arg-634-635-Arg in a time-dependent manner enhancing cell invasion and migration in vitro.  
Palmitoylation by DHHC3 enhances stability and cell surface expression.

**细胞定位** Cell membrane. Cell membrane.



Western blot - Anti-Integrin alpha 6 antibody [EPR5578] (ab124924)

**All lanes** : Anti-Integrin alpha 6 antibody [EPR5578] (ab124924) at 1/1000 dilution

**Lane 1** : Wild-type SW480 cell lysate

**Lane 2** : ITGA6 knockout SW480 cell lysate

**Lane 3** : HEK-293 cell lysate

Lysates/proteins at 20 µg per lane.

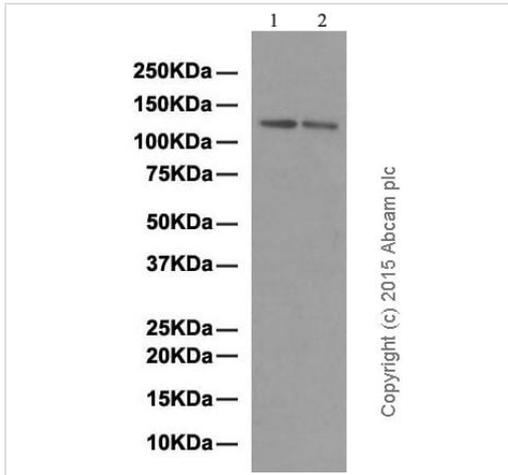
Performed under reducing conditions.

**Predicted band size:** 126 kDa

**Observed band size:** 130 kDa

**Lanes 1 - 3:** Merged signal (red and green). Green - ab124924 observed at 130 kDa. Red - loading control **ab8245** (Mouse anti-GAPDH antibody [6C5]) observed at 37kDa.

ab124924 was shown to react with Integrin alpha 6 in wild-type SW480 cells in western blot with loss of signal observed in ITGA6 knockout cell line **ab265838** (knockout cell lysate **ab256957**). Wild-type and ITGA6 knockout SW480 cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3% milk in TBS-T (0.1% Tween<sup>®</sup>) before incubation with ab124924 and **ab8245** (Mouse anti-GAPDH antibody [6C5]) overnight at 4°C at a 1 in 1000 dilution and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Rabbit IgG H&L (IRDye<sup>®</sup> 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye<sup>®</sup> 680RD) preabsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-Integrin alpha 6 antibody [EPR5578] (ab124924)

**All lanes :** Anti-Integrin alpha 6 antibody [EPR5578] (ab124924) at 1/10000 dilution (purified)

**Lane 1 :** HT-1376 cell lysate

**Lane 2 :** JAR cell lysate

Lysates/proteins at 20 µg per lane.

**Secondary**

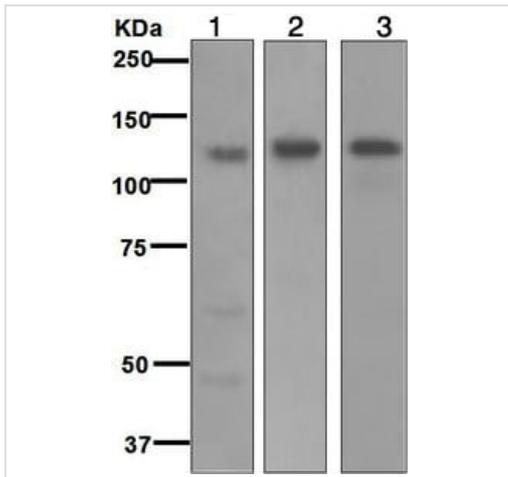
**All lanes :** HRP goat anti-rabbit IgG (H+L) at 1/50000 dilution

**Predicted band size:** 126 kDa

**Observed band size:** 126 kDa

Blocking buffer: 5% NFDm/TBST

Dilution buffer: 5% NFDm/TBST



Western blot - Anti-Integrin alpha 6 antibody [EPR5578] (ab124924)

**All lanes :** Anti-Integrin alpha 6 antibody [EPR5578] (ab124924) at 1/1000 dilution

**Lane 1 :** JAR cell lysate

**Lane 2 :** HT1376 cell lysate

**Lane 3 :** Human platelet lysate

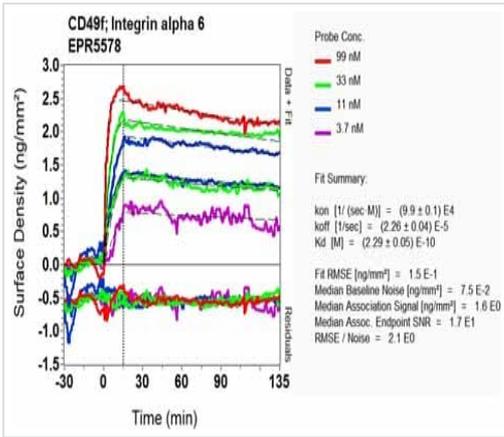
Lysates/proteins at 10 µg per lane.

**Secondary**

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

**Predicted band size:** 126 kDa

Secondary antibody - **anti-rabbit HRP (ab6721)**



OI-RD Scanning - Anti-Integrin alpha 6 antibody  
[EPR5578] (ab124924)

Equilibrium dissociation constant ( $K_D$ )

Learn more about  $K_D$

[Click here to learn more about  \$K\_D\$](#)

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 6 antibody [EPR5578] (ab124924)

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

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