

Anti-Integrin alpha 6 antibody [EPR5578] ab124924

敲除验证 重组 RabMAb

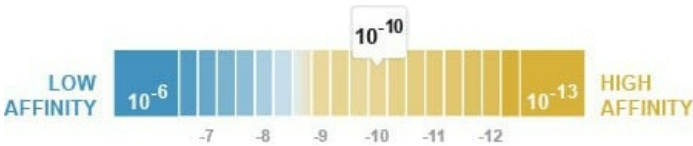
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概述

产品名称	Anti-Integrin alpha 6抗体[EPR5578]
描述	兔单克隆抗体[EPR5578] to Integrin alpha 6
宿主	Rabbit
经测试应用	适用于: WB 不适用于: Flow Cyt, ICC/IF or IHC-P
种属反应性	与反应: Human
免疫原	Synthetic peptide within Human Integrin alpha 6 aa 100-200. The exact sequence is proprietary. Database link: P23229
阳性对照	SW480, HEK293, JAR, HT1376, and Human platelet lysates; Human kidney tissue.
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents . Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

性能

形式	Liquid
存放说明	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.
解离常数 (K _D)	K _D = 2.29 x 10 ⁻¹⁰ M



[Learn more about Kp](#)

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

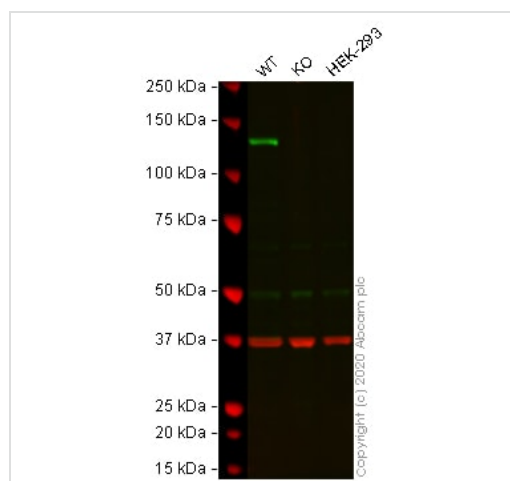
“应用说明”部分 下显示的仅为推荐的起始稀释度; 实际最佳的稀释度/浓度应由使用者检定。

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.

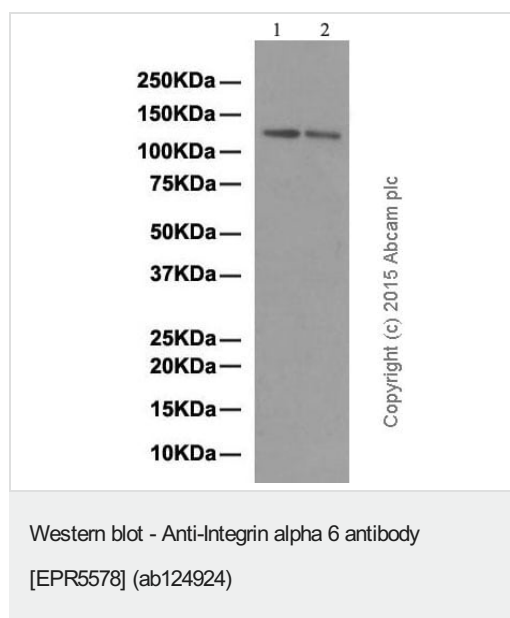
Performed under reducing conditions.

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[®]) 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[®] 800CW) preabsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye[®] 680RD) preabsorbed ([ab216776](#)) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



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

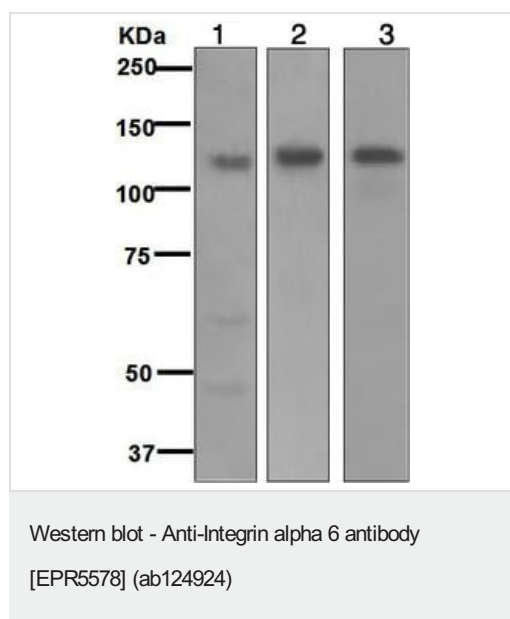
All lanes : HRP goat anti-rabbit IgG (H+L) at 1/50000 dilution

Predicted band size: 126 kDa

Observed band size: 126 kDa

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



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

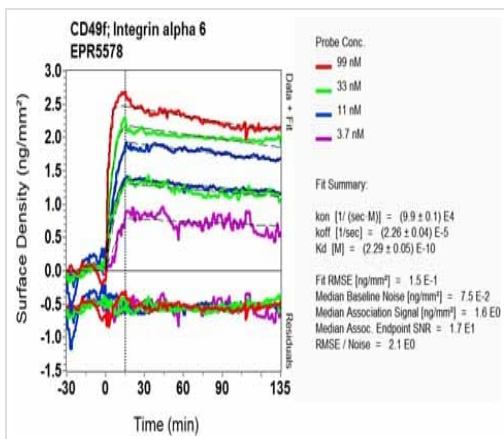
Lysates/proteins at 10 µg per lane.

Secondary

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

Predicted band size: 126 kDa

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



SPR 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)

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