

Anti-Integrin alpha 2 antibody [EPR5788] ab133557

KO 評価済 リコンビナント RabMAb

★★★★★ 5 Abreviews 51 References 画像数 9

製品の概要

製品名	Anti-Integrin alpha 2 antibody [EPR5788]
製品の詳細	Rabbit monoclonal [EPR5788] to Integrin alpha 2
由来種	Rabbit
アプリケーション	適用あり: WB, IHC-P 適用なし: Flow Cyt (Intra) or ICC/IF
種交差性	交差種: Mouse, Human
免疫原	Synthetic peptide within Human Integrin alpha 2 aa 1-100 (extracellular). The exact sequence is proprietary.
ポジティブ・コントロール	WB: T47-D, HEK293, 293T and A431 cell lysates. Human placenta and mouse spleen tissue lysates. IHC-P: Human breast carcinoma and colon tissue.
特記事項	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Rat: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information.</p>

製品の特性

製品の状態	Liquid
保存方法	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.
解離定数 (K _D 値)	K _D = 3.20 x 10 ⁻¹² M





[Learn more about K_D](#)

バッファー	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, 0.05% BSA, 59% PBS
精製度	Protein A purified
ポリモノ	モノクローナル
クローン名	EPR5788
アイソタイプ	IgG

アプリケーション

The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab133557の使用に適用されず**
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

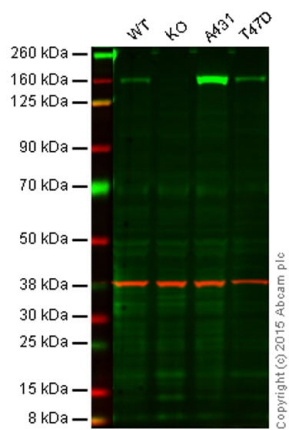
アプリケーション	Abreviews	特記事項
WB		1/10000 - 1/50000. Detects a band of approximately 150 kDa (predicted molecular weight: 129 kDa).
IHC-P	★★★★★ (3)	1/250. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See IHC antigen retrieval protocols .

追加情報 Is unsuitable for Flow Cyt (Intra) or ICC/IF.

ターゲット情報

機能	Integrin alpha-2/beta-1 is a receptor for laminin, collagen, collagen C-propeptides, fibronectin and E-cadherin. It recognizes the proline-hydroxylated sequence G-F-P-G-E-R in collagen. It is responsible for adhesion of platelets and other cells to collagens, modulation of collagen and collagenase gene expression, force generation and organization of newly synthesized extracellular matrix.
配列類似性	Belongs to the integrin alpha chain family. Contains 7 FG-GAP repeats. Contains 1 VWFA domain.
ドメイン	The integrin I-domain (insert) is a VWFA domain. Integrins with I-domains do not undergo protease cleavage.
細胞内局在	Membrane.

画像



Western blot - Anti-Integrin alpha 2 antibody [EPR5788] (ab133557)

Lane 1: Wild-type HAP1 cell lysate (20 µg)

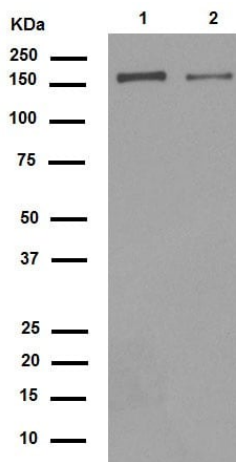
Lane 2: Integrin alpha 2 knockout HAP1 cell lysate (20 µg)

Lane 3: A431 cell lysate (20 µg)

Lane 4: T47D cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab133557 observed at 165 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab133557 was shown to specifically react with Integrin alpha 2 when Integrin alpha 2 knockout samples were used. Wild-type and Integrin alpha 2 knockout samples were subjected to SDS-PAGE. ab133557 and **ab8245** (loading control to GAPDH) were diluted 1/10 000 and 1/2000 respectively and incubated overnight at 4°C. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1/10,000 dilution for 1 h at room temperature before imaging.



Western blot - Anti-Integrin alpha 2 antibody [EPR5788] (ab133557)

All lanes : Anti-Integrin alpha 2 antibody [EPR5788] (ab133557) at 1/10000 dilution (purified)

Lane 1 : T47-D cell lysate

Lane 2 : HEK293 cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

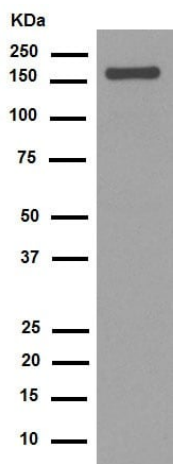
All lanes : Peroxidase-conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 129 kDa

Observed band size: 150 kDa

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.



Western blot - Anti-Integrin alpha 2 antibody
[EPR5788] (ab133557)

Anti-Integrin alpha 2 antibody [EPR5788] (ab133557) at 1/50000
dilution (purified) + A431 cell lysate at 20 µg

Secondary

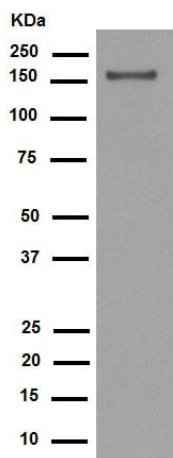
Peroxidase-conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 129 kDa

Observed band size: 150 kDa

Blocking buffer and concentration: 5% NFDN/TBST.

Diluting buffer and concentration: 5% NFDN /TBST.



Western blot - Anti-Integrin alpha 2 antibody
[EPR5788] (ab133557)

Anti-Integrin alpha 2 antibody [EPR5788] (ab133557) at 1/10000
dilution (purified) + Mouse spleen tissue lysate at 20 µg

Secondary

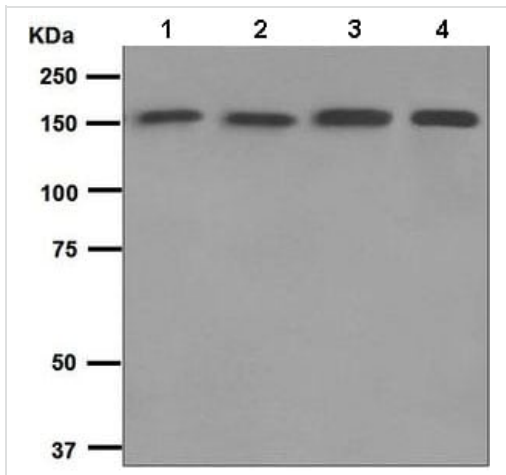
Peroxidase-conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 129 kDa

Observed band size: 150 kDa

Blocking buffer and concentration: 5% NFDN/TBST.

Diluting buffer and concentration: 5% NFDN /TBST.



Western blot - Anti-Integrin alpha 2 antibody [EPR5788] (ab133557)

All lanes : Anti-Integrin alpha 2 antibody [EPR5788] (ab133557) at 1/10000 dilution (unpurified)

Lane 1 : T47D lysate

Lane 2 : 293T lysate

Lane 3 : Human platelet lysate

Lane 4 : A431 lysate

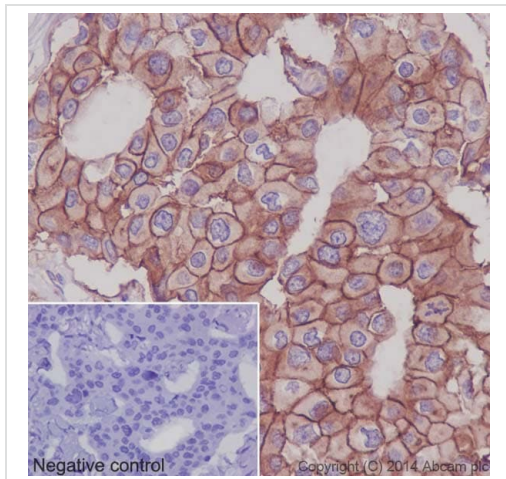
Lysates/proteins at 10 µg per lane.

Secondary

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

Predicted band size: 129 kDa

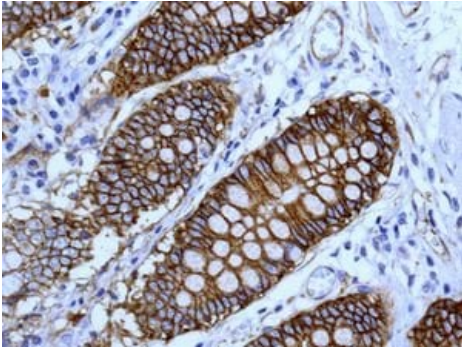
Observed band size: 150 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Integrin alpha 2 antibody [EPR5788] (ab133557)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human breast carcinoma tissue labelling Integrin alpha 2 with purified ab133557 at 1/500. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.

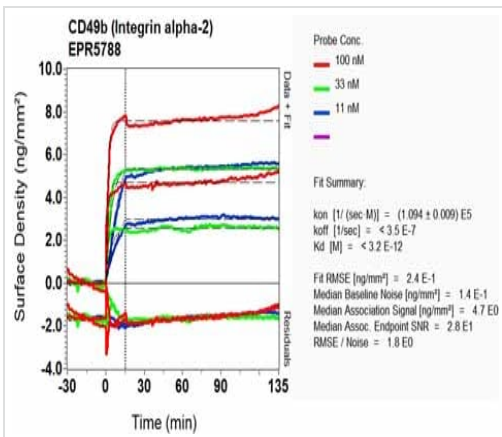
ab97051, a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Integrin alpha 2 antibody [EPR5788] (ab133557)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human colon tissue labelling Integrin alpha 2 with unpurified ab133557 at 1/250.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



OI-RD Scanning - Anti-Integrin alpha 2 antibody [EPR5788] (ab133557)

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 2 antibody [EPR5788] (ab133557)

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.co.jp/abpromise> or contact our technical team.

Terms and conditions

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