

Anti-ARID1A antibody [EPR13501] ab182560

敲除验证
重组
RabMAb

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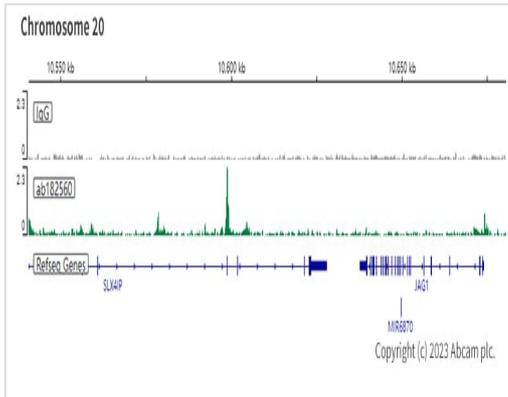
概述

产品名称	Anti-ARID1A抗体[EPR13501]
描述	兔单克隆抗体[EPR13501] to ARID1A
宿主	Rabbit
经测试应用	适用于: WB, ChIC/CUT&RUN-seq, Flow Cyt (Intra), IHC-P, ICC/IF 不适用于: ChIP
种属反应性	与反应: Human 预测可用于: Mouse, Rat 
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
阳性对照	IHC-P: Human kidney and human adenocarcinoma of endometrium without ARID1A mutation tissues. ICC/IF: Wildtype HAP1 and SH-SY5Y cells. WB: HEK-293T and SH-SY5Y cell lysates. ChIC/CUT&RUN-Seq: HCT116 cells.
常规说明	<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>

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 long term. Avoid freeze / thaw cycle.
存储溶液	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, 59% PBS, 0.05% BSA
纯度	Protein A purified
克隆	单克隆

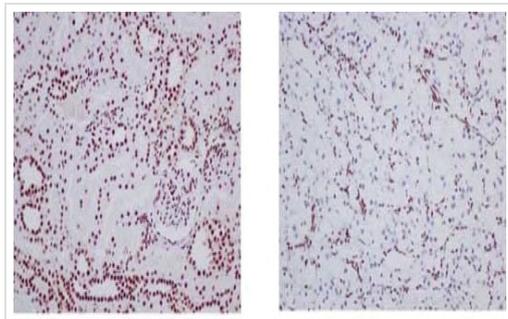
图片



ChIC/CUT&RUN sequencing - Anti-ARID1A antibody [EPR13501] (ab182560)

ChIC/CUT&RUN was performed using a pAG-MNase at a final concentration of 700 ng/mL, 2.5×10^5 HCT116 cells and 5µg of ab182560 [EPR13501]. The resulting DNA was sequenced on the Illumina NovaSeq 6000 to a depth of 10 million reads. The negative IgG control **ab172730** is also shown.

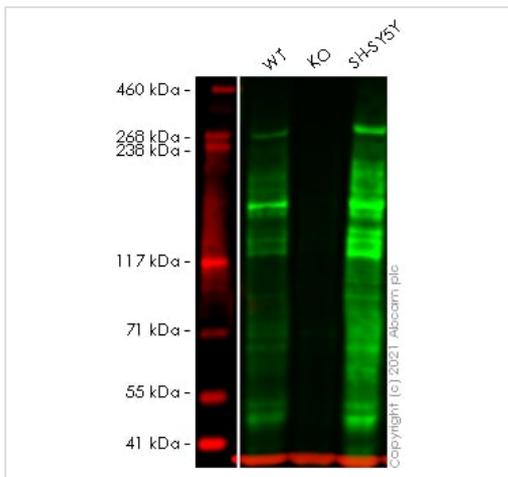
Additional screenshots of mapped reads can be downloaded [here](#). The University of Geneva owns patents relevant to ChIC (Chromatin Immuno-Cleavage) methods.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ARID1A antibody [EPR13501] (ab182560)

Immunohistochemical analysis of paraffin embedded Human kidney tissue (Left image) labeling ARID1A using ab182560 at 1/1000 dilution. Right image: Right picture: paraffine embedded human clear cell carcinoma of kidney with ARID1A mutation. A Ready to use HRP Polymer for Rabbit IgG (prediluted) was used as secondary. Counterstain: Hematoxylin.

Heat mediated antigen retrieval with Tris-EDTA, pH 9 was performed before commencing with IHC staining protocol.



Western blot - Anti-ARID1A antibody [EPR13501] (ab182560)

All lanes : Anti-ARID1A antibody [EPR13501] (ab182560) at 1/1000 dilution

Lane 1 : Wild-type HEK-293T cell lysate

Lane 2 : ARID1A knockout HEK-293T cell lysate

Lane 3 : SH-SY5Y cell lysate

Lysates/proteins at 20 µg per lane.

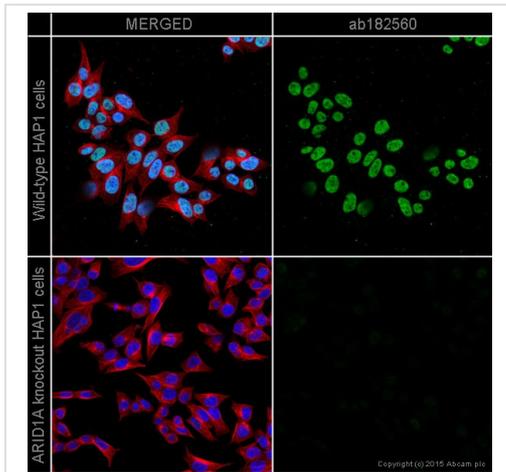
Performed under reducing conditions.

Predicted band size: 242 kDa

Observed band size: 270 kDa

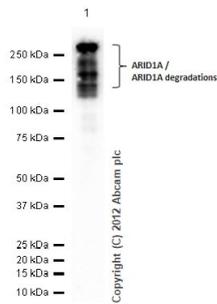
Lanes 1 - 3: Merged signal (red and green). Green - ab182560 observed at 270 kDa. Red - loading control **ab8245** (Mouse anti-GAPDH antibody [6C5]) observed at 37 kDa.

ab182560 was shown to react with ARID1A in wild-type HEK-293T cells in Western blot with loss of signal observed in ARID1A knockout cell line **ab266189** (ARID1A knockout cell lysate **ab257250**). Wild-type HEK-293T and ARID1A knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3 % milk in TBS-T (0.1 % Tween[®]) before incubation with ab182560 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 h at room temperature before imaging.



ab182560 staining ARID1A in wild-type HAP1 cells (top panel) and ARID1A knockout HAP1 cells (bottom panel). The cells were fixed with 4% formaldehyde (10min), permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated with ab182560 at 1/500 dilution and **ab195889** at 1/250 dilution (shown in pseudo colour red) overnight at +4°C, followed by a further incubation at room temperature for 1h with a goat secondary antibody to Rabbit IgG (Alexa Fluor[®] 488) (**ab150081**) at 2 µg/ml (shown in green). Nuclear DNA was labelled in blue with DAPI.

Immunocytochemistry/ Immunofluorescence - Anti-ARID1A antibody [EPR13501] (ab182560)



Western blot - Anti-ARID1A antibody [EPR13501] (ab182560)

Anti-ARID1A antibody [EPR13501] (ab182560) at 1/1000 dilution + 293T (Human embryonic kidney epithelial cell) whole cell lysate at 20 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 242 kDa

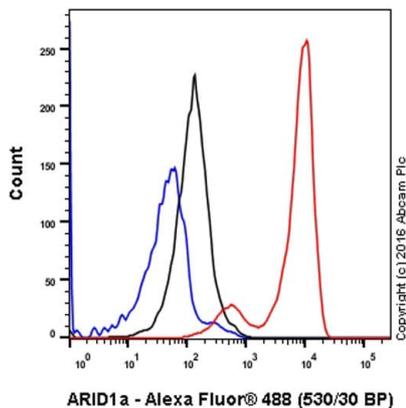
Observed band size: 130,270 kDa

Exposure time: 20 seconds

Blocking buffer and concentration: 5% NFDM/TBS

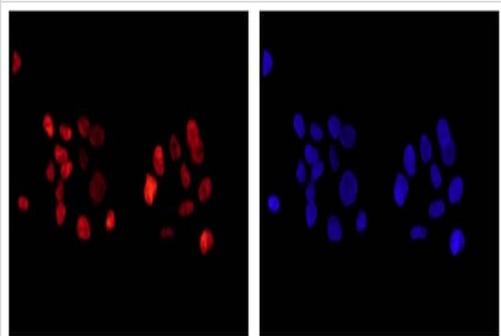
Observed band: 130-270 kDa

ARID1A has many mutations which typically generate truncated proteins that are highly prone to degradation. (PMID: 21614196, PMID: 29486633, PMID: 34429326).



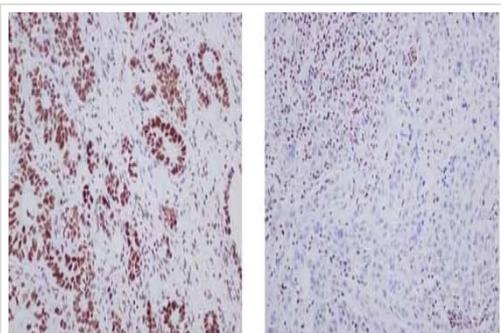
Flow Cytometry (Intracellular) - Anti-ARID1A antibody [EPR13501] (ab182560)

Intracellular Flow Cytometry analysis of SH-SY5Y (human neuroblastoma) cells labeling ARID1A with purified ab182560 at 1/230 dilution (10ug/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. A Goat anti rabbit IgG (Alexa Fluor® 488) (1/2000 dilution) was used as the secondary antibody. Rabbit monoclonal IgG (Black) was used as the isotype control, cells without incubation with primary antibody and secondary antibody (Blue) were used as the unlabeled control.



Immunocytochemistry/ Immunofluorescence - Anti-ARID1A antibody [EPR13501] (ab182560)

Immunofluorescent analysis of SH-SY5Y cells labeling ARID1A with ab182560 at 1/500 and Goat anti rabbit IgG(Alexa Fluor®555) at 1/200. Image at the right stained with DAPI.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ARID1A antibody [EPR13501] (ab182560)

Immunohistochemical analysis of paraffin embedded Human adenocarcinoma of endometrium without ARID1A mutation (Left image) labeling ARID1A using ab182560 at 1/1000 dilution. Right image: Right picture: paraffine embedded human adenocarcinoma of endometrium with ARID1A mutation. A Ready to use HRP Polymer for Rabbit IgG (prediluted) was used as secondary. Counterstain: Hematoxylin.

Heat mediated antigen retrieval with Tris-EDTA, pH 9 was performed before commencing with IHC staining protocol.

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-ARID1A antibody [EPR13501] (ab182560)

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