

Anti-HP1 alpha antibody [EPR5777] - Heterochromatin marker ab109028

敲除验证 重组 RabMAb

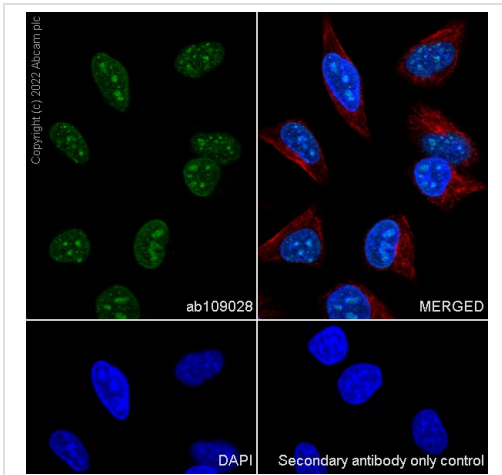
★★★★★ [8 Abreviews](#) [13 References](#) [10 图像](#)

概述

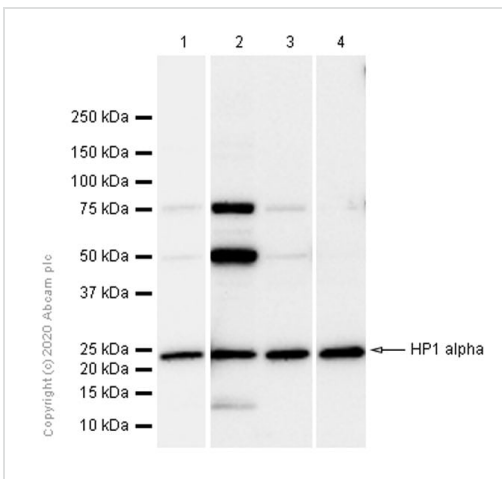
产品名称	Anti-HP1 alpha抗体[EPR5777] - Heterochromatin marker
描述	兔单克隆抗体[EPR5777] to HP1 alpha - Heterochromatin marker
宿主	Rabbit
经测试应用	适用于: Flow Cyt (Intra), ICC/IF, WB, IP, IHC-P
种属反应性	与反应: Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	ICC/IF: HAP1 and HeLa cells; IP: MCF7 cell lysate; Flow Cyt (intra): HeLa cells; IHC-P: Human breast cancer, rat pancreas, and mouse kidney tissue sections; WB: HeLa, SH-SY5Y whole cell lysates, Rat and mouse brain lysates.
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: 7.20 Preservative: 0.01% Sodium azide Constituents: 0.05% BSA, 40% Glycerol (glycerin, glycerine), 59% PBS
纯度	Protein A purified
克隆	单克隆



Immunocytochemistry/ Immunofluorescence - Anti-HP1 alpha antibody [EPR5777] - Heterochromatin marker (ab109028)



Western blot - Anti-HP1 alpha antibody [EPR5777] - Heterochromatin marker (ab109028)

ab109028 staining HP1 alpha in HeLa (human cervical adenocarcinoma epithelial cell). The cells were fixed with 100% methanol, permeabilized with 0.1% TritonX-100. The cells were then incubated with ab109028 at 1:100 dilution. Cells were then incubated with **ab150088**, Goat Anti-Rabbit IgG H&L (Alexa Fluor® 594) preadsorbed at 1:1000 dilution (shown in green).

ab195889, Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) was used as counterstain at 1:200 dilution (shown in red). Nuclear DNA was labelled with DAPI (shown in blue).

Confocal image showing nuclear staining in HeLa cell line.

All lanes : Anti-HP1 alpha antibody [EPR5777] - Heterochromatin marker (ab109028) at 1/1000 dilution (Purified)

Lane 1 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate

Lane 2 : SH-SY5Y (Human neuroblastoma epithelial cell) whole cell lysate

Lane 3 : Mouse brain lysate

Lane 4 : Rat brain lysate

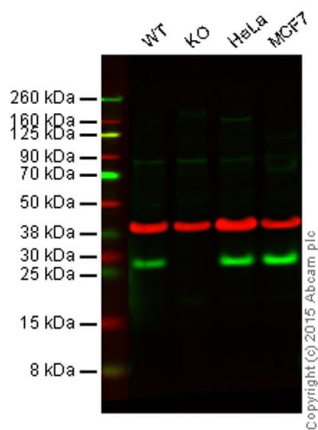
Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 22 kDa

We are unsure how to define the extra bands.



Western blot - Anti-HP1 alpha antibody [EPR5777] - Heterochromatin marker (ab109028)

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

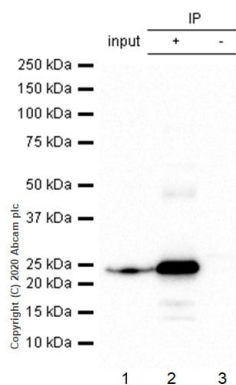
Lane 2: HP1 alpha knockout HAP1 cell lysate (20 µg)

Lane 3: HeLa cell lysate (20 µg)

Lane 4: MCF7 cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab109028 observed at 28 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab109028 was shown to specifically react with HP1 alpha when HP1 alpha knockout samples were used. Wild-type and HP1 alpha knockout samples were subjected to SDS-PAGE. ab109028 and **ab8245** (loading control to GAPDH) were diluted 1/1000 and 1/20 000 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 1/10000 dilution for 1 h at room temperature before imaging.



Immunoprecipitation - Anti-HP1 alpha antibody [EPR5777] - Heterochromatin marker (ab109028)

Purified ab109028 at 1/30 dilution (2µg) immunoprecipitating HP1 alpha in MCF7 whole cell lysate.

Lane 1 (input): MCF7 (Human breast adenocarcinoma epithelial cell) whole cell lysate 10µg

Lane 2 (+): ab109028 + MCF7 whole cell lysate.

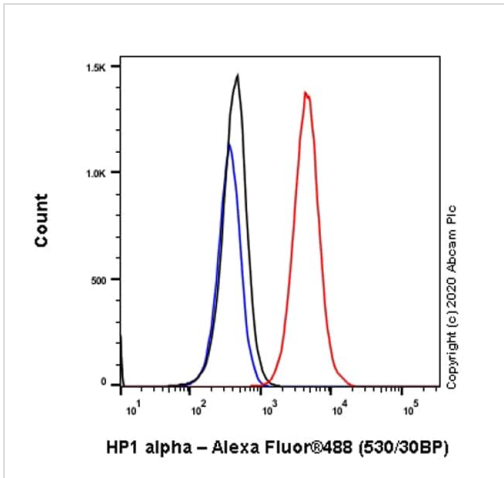
Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab109028 in MCF7 whole cell lysate.

VeriBlot for IP Detection Reagent (HRP) (**ab131366**) (1/1000 dilution) was used for Western blotting.

Blocking Buffer and concentration: 5% NFDm/TBST.

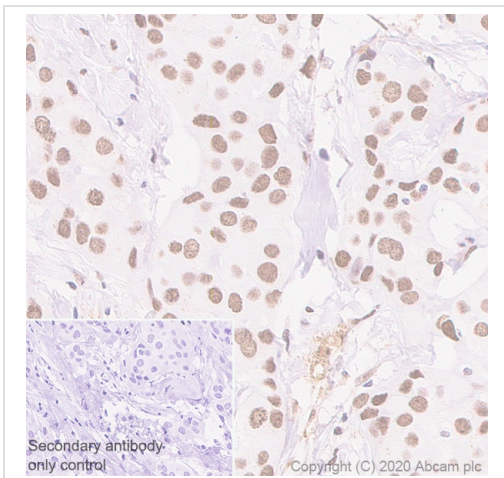
Diluting buffer and concentration: 5% NFDm/TBST.

Observed band size: 22 kDa



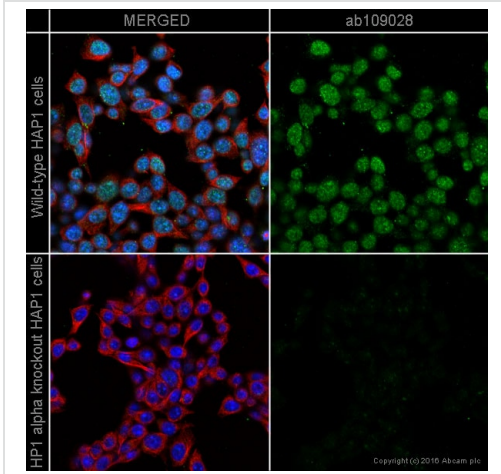
Flow Cytometry (Intracellular) - Anti-HP1 alpha antibody [EPR5777] - Heterochromatin marker (ab109028)

Intracellular Flow Cytometry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling HP1 alpha with Purified ab109028 at 1/30 dilution (10 µg/mL) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HP1 alpha antibody [EPR5777] - Heterochromatin marker (ab109028)

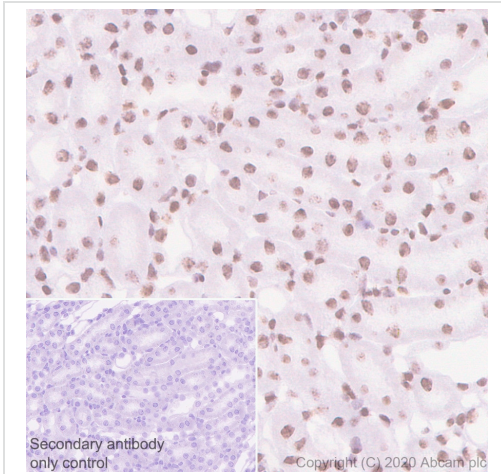
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human breast cancer tissue sections labeling HP1 alpha with Purified ab109028 at 1/1000 dilution (0.31 µg/mL). Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Immunocytochemistry/ Immunofluorescence - Anti-HP1 alpha antibody [EPR5777] - Heterochromatin marker (ab109028)

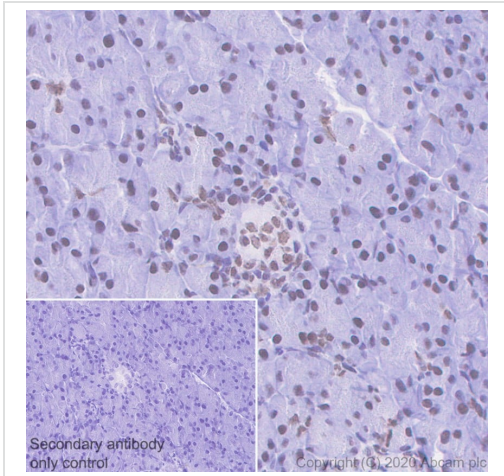
ab109028 staining HP1 alpha in wild-type HAP1 cells (top panel) and HP1 alpha knockout HAP1 cells (bottom panel). The cells were fixed with 4% formaldehyde (10min), permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated with ab109028 at 1/250 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.

Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HP1 alpha antibody [EPR5777] - Heterochromatin marker (ab109028)





Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse kidney tissue sections labeling HP1 alpha with Purified ab109028 at 1/1000 dilution (0.31 µg/mL). Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat pancreas tissue sections labeling HP1 alpha with Purified ab109028 at 1/1000 dilution (0.31 µg/mL). Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HP1 alpha antibody [EPR5777] - Heterochromatin marker (ab109028)

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>

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