

Anti-Fatty Acid Synthase antibody [EPR7466] ab128870

敲除验证
重组
RabMAb

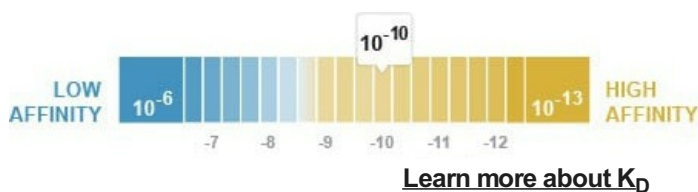
★★★★★
[1 Abreviews](#)
[44 References](#)
[10 图像](#)

概述

| | |
|-------|---|
| 产品名称 | Anti-Fatty Acid Synthase抗体[EPR7466] |
| 描述 | 兔单克隆抗体[EPR7466] to Fatty Acid Synthase |
| 宿主 | Rabbit |
| 经测试应用 | 适用于: IP, WB, IHC-P, ICC/IF, Flow Cyt (Intra) |
| 种属反应性 | 与反应: Mouse, Rat, Human |
| 免疫原 | Synthetic peptide within Human Fatty Acid Synthase aa 2450-2550 (C terminal). The exact sequence is proprietary. |
| 阳性对照 | WB: HAP1 and A549 whole cell lysate. |
| 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. Avoid freeze / thaw cycle. |
| 解离常数 (K _D) | K _D = 1.34 x 10 ⁻¹⁰ M |



| | |
|------|---|
| 存储溶液 | <p>pH: 7.20</p> <p>Preservative: 0.01% Sodium azide</p> |
|------|---|

| | |
|------|---|
| | Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.5% BSA |
| 纯度 | Protein A purified |
| 克隆 | 单克隆 |
| 克隆编号 | EPR7466 |
| 同种型 | IgG |

应用

The Abpromise guarantee
Abpromise™承诺保证使用ab128870于以下的经测试应用

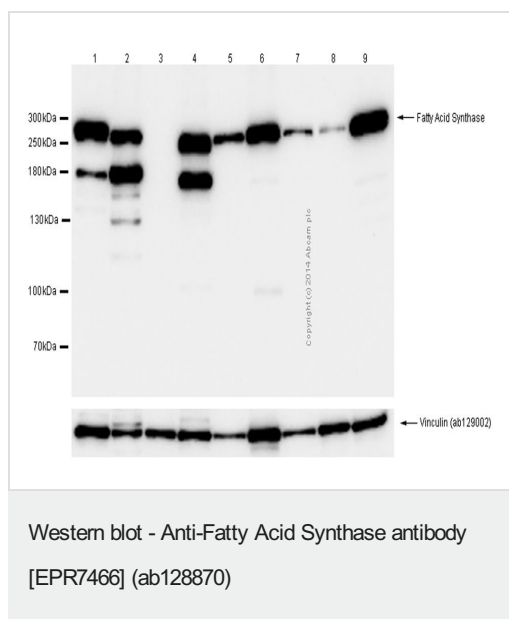
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

| 应用 | Ab评论 | 说明 |
|------------------|------|---|
| IP | | 1/30. |
| WB | | 1/10000. Predicted molecular weight: 273 kDa. This antibody does not work well in liver tissue in WB application. We suggest ab128856 as an alternative. |
| IHC-P | | 1/450. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. |
| ICC/IF | | 1/250 - 1/500. |
| Flow Cyt (Intra) | | 1/50. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. |

靶标

| | |
|-------|--|
| 功能 | Fatty acid synthetase catalyzes the formation of long-chain fatty acids from acetyl-CoA, malonyl-CoA and NADPH. This multifunctional protein has 7 catalytic activities and an acyl carrier protein. |
| 组织特异性 | Ubiquitous. Prominent expression in brain, lung, and liver. |
| 序列相似性 | Contains 1 acyl carrier domain. |
| 细胞定位 | Cytoplasm. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV. |

图片



Lanes 1-7 : Anti-Fatty Acid Synthase antibody [EPR7466] (ab128870) at 1/1000 dilution (Purified)

Lanes 8-9 : Anti-Fatty Acid Synthase antibody [EPR7466] (ab128870) at 1/1000 dilution

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

Lane 2 : A549 (Human lung carcinoma epithelial cell) whole cell lysate

Lane 3 : Mouse liver lysate

Lane 4 : NIH/3T3 (Mouse embryonic fibroblast) whole cell lysate

Lane 5 : Mouse brain lysate

Lane 6 : L6 (Rat skeletal muscle myoblast) whole cell lysate

Lane 7 : Rat brain lysate

Lane 8 : Rat liver lysate

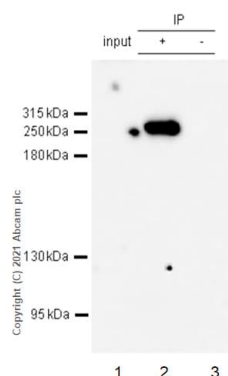
Lane 9 : HEK-293 (Human embryonic kidney epithelial cell) whole cell lysate

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: 273 kDa



Immunoprecipitation - Anti-Fatty Acid Synthase antibody [EPR7466] (ab128870)

Purified ab128870 at 1:30 dilution (2µg) immunoprecipitating Fatty Acid Synthase in HEK-293 whole cell lysate.

Lane 1 (input): HEK-293 (Human embryonic kidney epithelial cell) whole cell lysate 10 µg

Lane 2 (+): ab128870 + HEK-293 whole cell lysate.

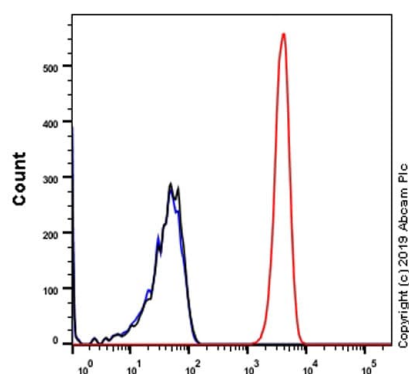
Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab128870 in HEK-293 whole cell lysate.

VeriBlot for IP Detection Reagent (HRP)(**ab131366**) (1:10,000 dilution) was used for Western blotting.

Blocking Buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM/TBST.

Observed band size: kDa

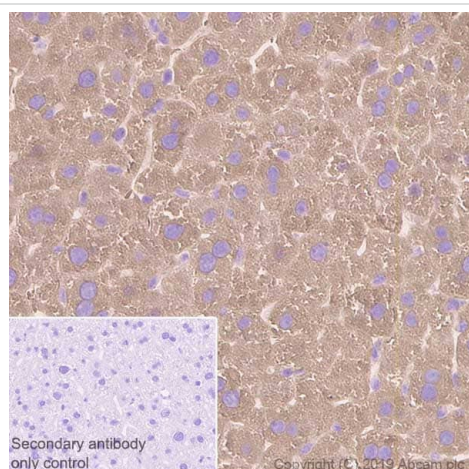


Flow Cytometry (Intracellular) - Anti-Fatty Acid Synthase antibody [EPR7466] (ab128870)

Flow Cytometry analysis of A549 (Human lung carcinoma epithelial cell) cells labelling Fatty Acid Synthase with Purified ab128870 at

1:50 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

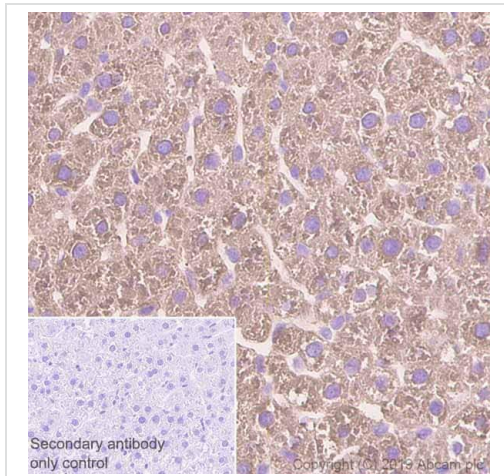
was used at 1:2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabelled control - Cell without incubation with primary antibody and secondary antibody (Blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Fatty Acid Synthase antibody [EPR7466] (ab128870)

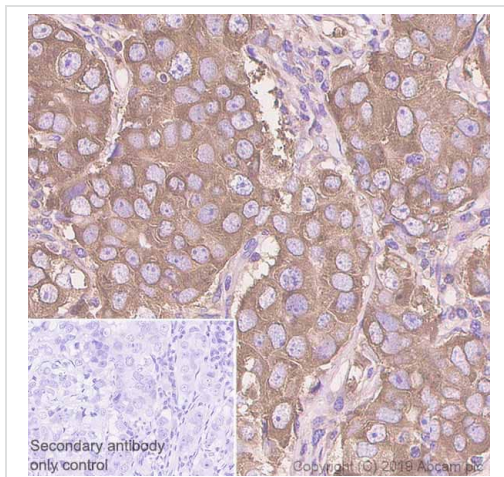
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse liver tissue sections labeling Fatty Acid Synthase with Purified ab128870 at 1:450 dilution (1.09 µg/ml).

Heat mediated antigen retrieval was performed using Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0) . Tissue was counterstained with Hematoxylin. Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) secondary antibody was used at 1:0 dilution. PBS instead of the primary antibody was used as the negative control.



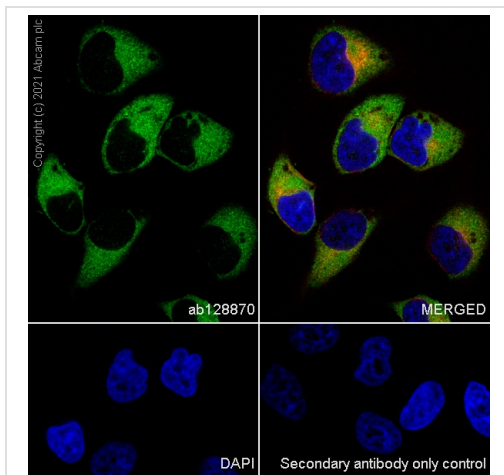
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Fatty Acid Synthase antibody [EPR7466] (ab128870)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat liver tissue sections labeling Fatty Acid Synthase with Purified ab128870 at 1:450 dilution (1.09 µg/ml). Heat mediated antigen retrieval was performed using Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0) . Tissue was counterstained with Hematoxylin. Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) secondary antibody was used at 1:0 dilution. PBS instead of the primary antibody was used as the negative control.



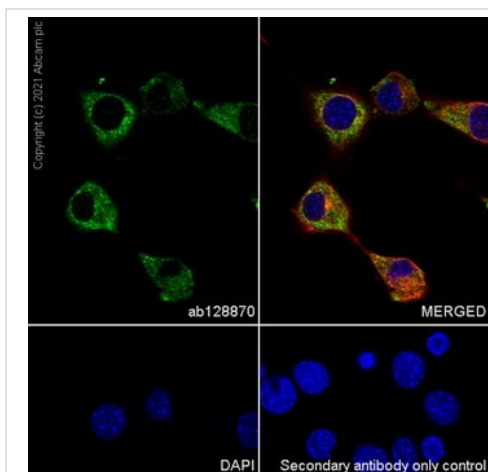
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Fatty Acid Synthase antibody [EPR7466] (ab128870)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human breast cancer tissue sections labeling Fatty Acid Synthase with Purified ab128870 at 1:450 dilution (1.09 µg/ml). Heat mediated antigen retrieval was performed using Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0) . Tissue was counterstained with Hematoxylin. Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) secondary antibody was used at 1:0 dilution. PBS instead of the primary antibody was used as the negative control.



Immunocytochemistry/ Immunofluorescence - Anti-Fatty Acid Synthase antibody [EPR7466] (ab128870)

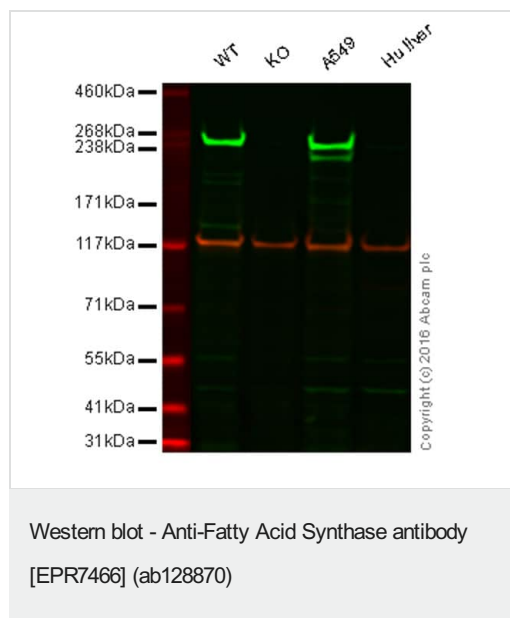
Immunocytochemistry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling Fatty Acid Synthase with Purified ab128870 at 1:50 dilution (10 µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1:200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)) was used as the secondary antibody at 1:1000 (2 µg/ml) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Immunocytochemistry/ Immunofluorescence - Anti-Fatty Acid Synthase antibody [EPR7466] (ab128870)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized NIH/3T3 (mouse embryonic fibroblast) cells labelling with ab128870 at 1/50 dilution, followed by [ab150081](#) antibody at 1/1000 dilution (Green). Confocal image showing cytoplasmic staining in NIH/3T3 cells is observed. [ab195889](#) was used to counterstain tubulin at 1/200 dilution (Red). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is [ab150081](#) at 1/1000 dilution.



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

Lane 2: Fatty Acid Synthase knockout HAP1 cell lysate (20 µg)

Lane 3: A549 cell lysate (20 µg)

Lane 4: Hu liver tissue lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab128870 observed at 250 kDa. Red - loading control, **ab18058**, observed at 124 kDa.

ab128870 was shown to react with Fatty Acid Synthase in wild-type HAP1 cells along with additional cross reactive bands. No band was observed when Fatty Acid Synthase knockout samples were examined. Wild-type and Fatty Acid Synthase knockout samples were subjected to SDS-PAGE. ab128870 and **ab18058** (loading control to Vinculin) were both diluted at 1/10,000 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 hour at room temperature before imaging.

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-Fatty Acid Synthase antibody [EPR7466] (ab128870)

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