

## Product datasheet

### Anti-Fatty Acid Synthase antibody [EPR7465] ab128856

KO VALIDATED Recombinant RabMAb

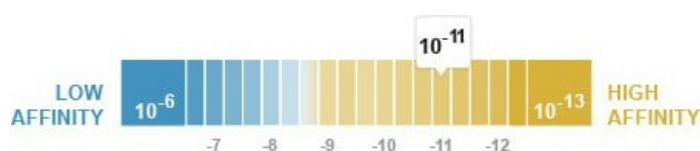
★★★★★ [5 Abreviews](#) [16 References](#) [5 Images](#)

#### Overview

<b>Product name</b>	Anti-Fatty Acid Synthase antibody [EPR7465]
<b>Description</b>	Rabbit monoclonal [EPR7465] to Fatty Acid Synthase
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, ICC/IF, Flow Cyt (Intra) <b>Unsuitable for:</b> IHC-P or IP
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide within Human Fatty Acid Synthase aa 1-100. The exact sequence is proprietary. Database link: <a href="#">P49327</a>
<b>Positive control</b>	WB: HeLa, HEK-293, 293T, A549, SHSY-5Y, NIH/3T3, L6 (Rat skeletal muscle myoblast) and MOLT4 cell lysates; Mouse brain, Rat brain lysates. ICC/IF: A549 cells. IHC-Fr: Human peritoneal tumor tissue. Flow Cyt (intra): A549 cells.
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Dissociation constant (K<sub>D</sub>)</b>	K <sub>D</sub> = 1.58 x 10 <sup>-11</sup> M



[Learn more about K<sub>D</sub>](#)

Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR7465
Isotype	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab128856 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

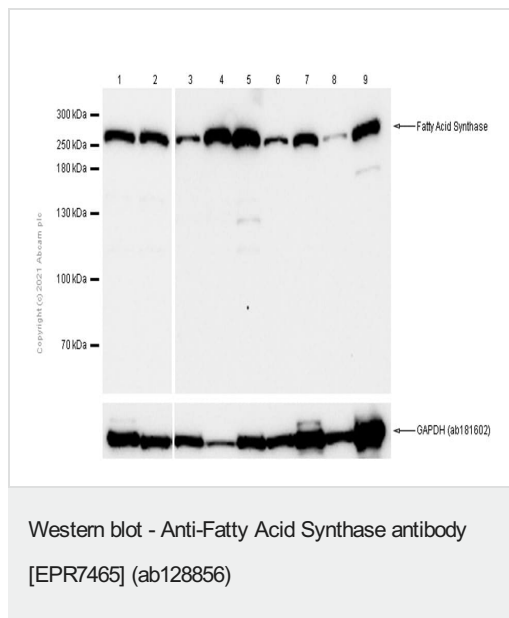
Application	Abreviews	Notes
WB	★★★★★ (2)	1/1000 - 1/10000. Predicted molecular weight: 273 kDa.
ICC/IF	★★★★★ (1)	1/50. For unpurified version, use at 1/250 - 1/500 dilution.
Flow Cyt (Intra)		1/10 - 1/100. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

**Application notes** Is unsuitable for IHC-P or IP.

## Target

Function	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.
Tissue specificity	Ubiquitous. Prominent expression in brain, lung, and liver.
Sequence similarities	Contains 1 acyl carrier domain.
Cellular localization	Cytoplasm. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

## Images



**All lanes :** Anti-Fatty Acid Synthase antibody [EPR7465] (ab128856) at 1/5000 dilution (Purified)

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

**Lane 2 :** HEK-293 (Human embryonic kidney epithelial cell) whole cell lysate

**Lane 3 :** A549 (Human lung carcinoma epithelial cell) whole cell lysate

**Lane 4 :** MOLT-4 (Human lymphoblastic leukemia T lymphoblast) whole cell lysate

**Lane 5 :** SH-SY5Y (Human neuroblastoma epithelial cell) whole cell lysate

**Lane 6 :** Mouse brain lysate

**Lane 7 :** NIH/3T3 (Mouse embryonic fibroblast) whole cell lysate

**Lane 8 :** Rat brain lysate

**Lane 9 :** L6 (Rat skeletal muscle myoblast) whole cell lysate

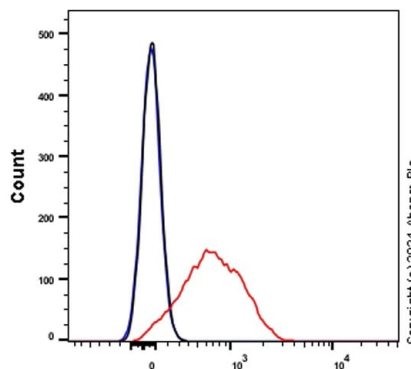
Lysates/proteins at 20 µg per lane.

### Secondary

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

**Predicted band size:** 273 kDa

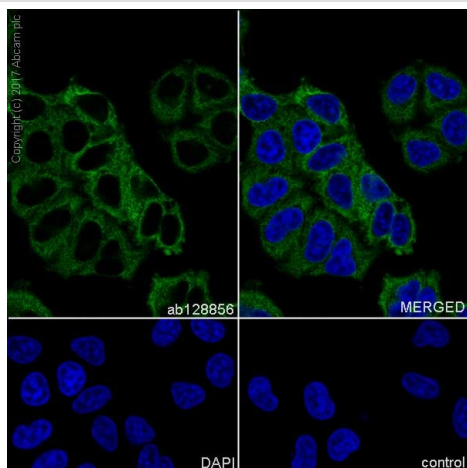
**Observed band size:** 273 kDa



Fatty Acid Synthase – Alexa Fluor®488 (530/30BP)

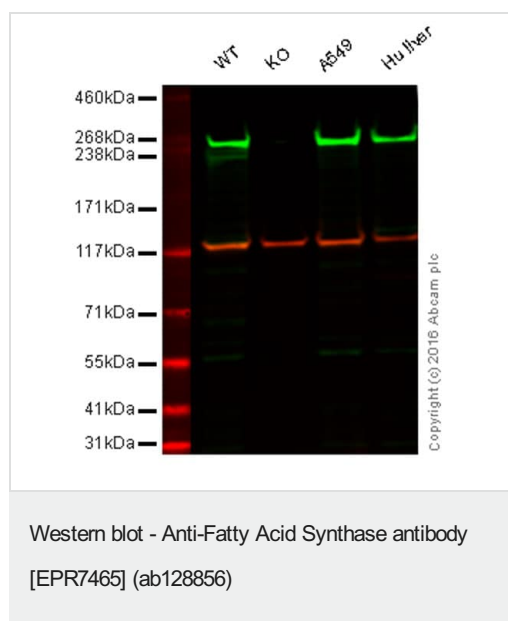
Flow Cytometry (Intracellular) - Anti-Fatty Acid Synthase antibody [EPR7465] (ab128856)

Flow Cytometry analysis of A549 (Human lung carcinoma epithelial cell) cells labelling Fatty Acid Synthase with Purified ab128856 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).



Immunocytochemistry/ Immunofluorescence - Anti-Fatty Acid Synthase antibody [EPR7465] (ab128856)

Immunocytochemistry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling Fatty Acid Synthase with Purified ab128856 at 1:50 dilution (4.5 µg/ml). Cells were fixed in 100% Methanol and permeabilized with 0.1% tritonX-100. Cells were counterstained with . 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.



**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 - ab128856 observed at 250 kDa. Red - loading control, **ab18058**, observed at 124 kDa.

ab128856 was shown to specifically react with Fatty Acid Synthase in wild-type HAP1 cells. 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. ab128856 and **ab18058** (loading control to Vinculin) were diluted at 1/1000 and 1/10,000 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 1/10,000 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 [EPR7465] (ab128856)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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