

## Product datasheet

# Anti-Fatty Acid Synthase antibody [EPR7465] ab128856

**KO** **VALIDATED** Recombinant RabMAB

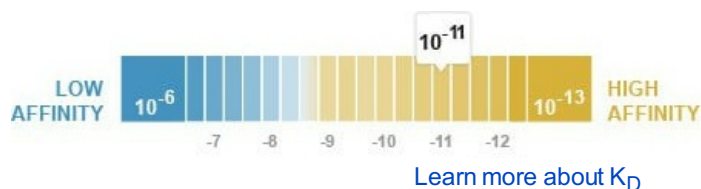
★★★★★ 5 Abreviews 12 References 5 Images

### 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)<br><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.<br>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> <p><b>We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.</b></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. |

**Dissociation constant (K<sub>D</sub>)**K<sub>D</sub> = 1.58 x 10<sup>-11</sup> M**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.<br><a href="#">ab172730</a> - 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.

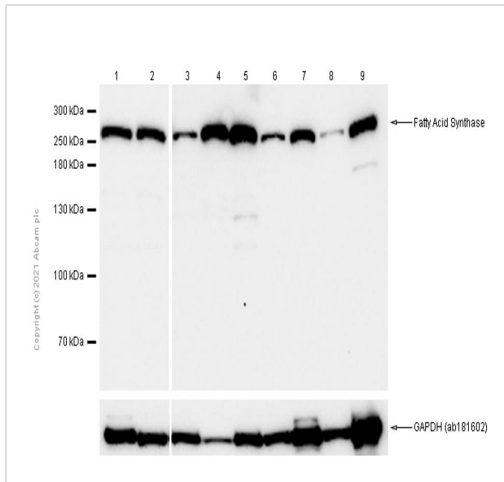
**Sequence similarities**

Contains 1 acyl carrier domain.

**Cellular localization**

Cytoplasm. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

**Images**



Western blot - Anti-Fatty Acid Synthase antibody [EPR7465] (ab128856)

**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

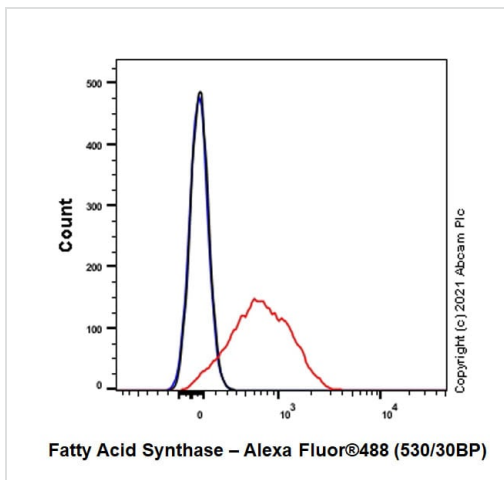
Lysates/proteins at 20 µg per lane.

### Secondary

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

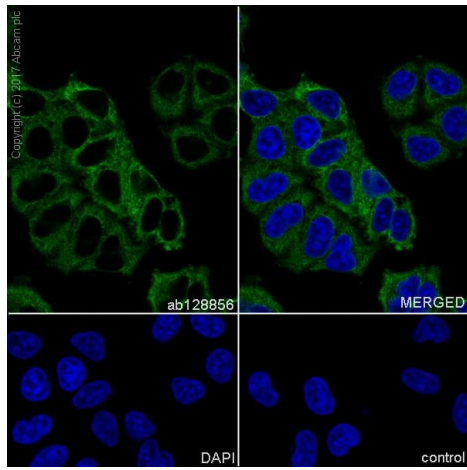
**Predicted band size:** 273 kDa

**Observed band size:** 273 kDa



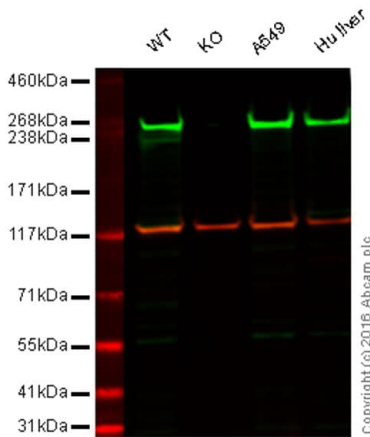
Flow Cytometry - Anti-Fatty Acid Synthase antibody [EPR7465] (ab128856)

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 - 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.



Western blot - Anti-Fatty Acid Synthase antibody [EPR7465] (ab128856)

**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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