

Product datasheet

Anti-Fatty Acid Synthase antibody [EPR7466] (HRP)
 ab196854

KO VALIDATED Recombinant RabMAB

2 References 2 Images

Overview

Product name	Anti-Fatty Acid Synthase antibody [EPR7466] (HRP)
Description	Rabbit monoclonal [EPR7466] to Fatty Acid Synthase (HRP)
Host species	Rabbit
Conjugation	HRP
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Synthetic peptide within Human Fatty Acid Synthase aa 2450 to the C-terminus (C terminal). The exact sequence is proprietary.
Positive control	WB: HeLa, HEK293 and A549 whole cell lysates.
General notes	

This product is a recombinant monoclonal antibody, which offers several advantages including:

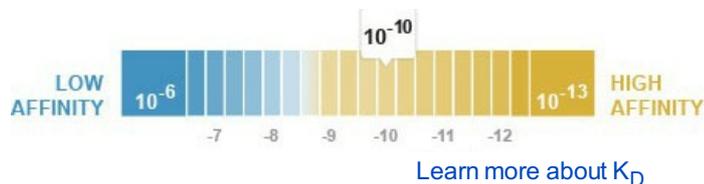
- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information [see here](#).

Our RabMAB[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAB[®] patents](#).

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C. Store In the Dark.
Dissociation constant (K_D)	K _D = 1.34 x 10 ⁻¹⁰ M



Storage buffer	pH: 7.40 Preservative: 0.1% Proclin Constituents: PBS, 30% Glycerol, 1% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR7466
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab196854** in the following tested applications.

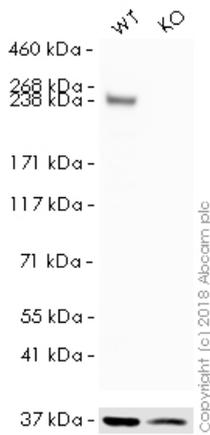
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/5000. Detects a band of approximately 273 kDa (predicted molecular weight: 273 kDa).

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 [EPR7466] (HRP) (ab196854)

All lanes : Anti-Fatty Acid Synthase antibody [EPR7466] (HRP) (ab196854) at 1/5000 dilution

Lane 1 : Wild-type HAP1 whole cell lysate

Lane 2 : FASN (Fatty Acid Synthase) knockout HAP1 whole cell lysate

Lysates/proteins at 20 µg per lane.

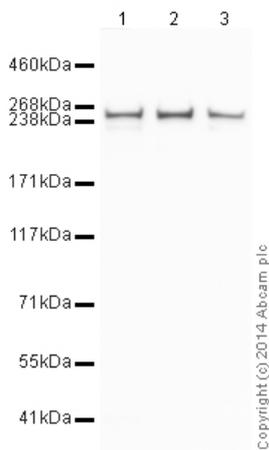
Predicted band size: 273 kDa

Observed band size: 260 kDa

[why is the actual band size different from the predicted?](#)

Exposure time: 1 minute

ab196854 was shown to specifically react with Fatty Acid Synthase in wild-type HAP1 cells as signal was lost in FASN (Fatty Acid Synthase) knockout cells. Wild-type and FASN (Fatty Acid Synthase) knockout samples were subjected to SDS-PAGE. Ab196854 and [ab184095](#) (Mouse monoclonal [mAbcam 9484] to GAPDH - Loading Control (Alexa Fluor® 680) loading control) were incubated overnight at 4°C at 1/5000 dilution and 1/1000 dilution respectively. The loading control was imaged using the Licor Odyssey CLx prior to blots being developed with ECL technique.



Western blot - Anti-Fatty Acid Synthase antibody [EPR7466] (HRP) (ab196854)

All lanes : Anti-Fatty Acid Synthase antibody [EPR7466] (HRP) (ab196854) at 1/5000 dilution

Lane 1 : HeLa whole cell lysate ([ab150035](#))

Lane 2 : HEK293 (Human embryonic kidney cell line) Whole Cell Lysate

Lane 3 : A549 (Human lung adenocarcinoma epithelial cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 273 kDa

Observed band size: 273 kDa

Exposure time: 8 minutes

This blot was produced using a 3-8% Tris Acetate gel under the TA buffer system. The gel was run at 150V for 60 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 2% Bovine Serum Albumin before being incubated with ab196854 overnight at 4°C. Antibody binding was visualised using ECL development solution [ab133406](#).

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

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