

Product datasheet

Anti-FABP5 antibody [EPR22552-64] ab255276

KO VALIDATED Recombinant RabMAB

[3 References](#) [7 Images](#)

Overview

Product name	Anti-FABP5 antibody [EPR22552-64]
Description	Rabbit monoclonal [EPR22552-64] to FABP5
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB, IHC-P Unsuitable for: ChIP, Flow Cyt or IP
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: MDA-MB-231, HeLa and PC-3 whole cell lysates; IHC-P: Human placenta, cerebral cortex and skin tissue. ICC/IF: MDA-MB-231 cells.
General notes	<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>

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. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 0.05% BSA, PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR22552-64

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab255276 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
ICC/IF		1/50.
WB		1/1000. Detects a band of approximately 15 kDa (predicted molecular weight: 15 kDa).
IHC-P		1/4000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Application notes

Is unsuitable for ChIP, Flow Cyt or IP.

Target

Function

High specificity for fatty acids. Highest affinity for C18 chain length. Decreasing the chain length or introducing double bonds reduces the affinity. May be involved in keratinocyte differentiation.

Tissue specificity

Keratinocytes; highly expressed in psoriatic skin.

Sequence similarities

Belongs to the calycin superfamily. Fatty-acid binding protein (FABP) family.

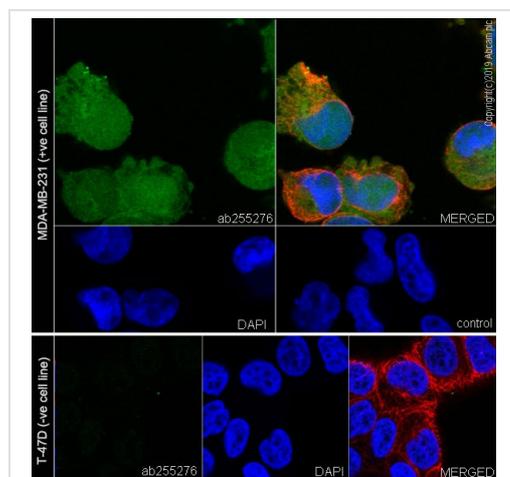
Domain

Forms a beta-barrel structure that accommodates the hydrophobic ligand in its interior.

Cellular localization

Cytoplasm.

Images



Immunocytochemistry/ Immunofluorescence - Anti-FABP5 antibody [EPR22552-64] (ab255276)

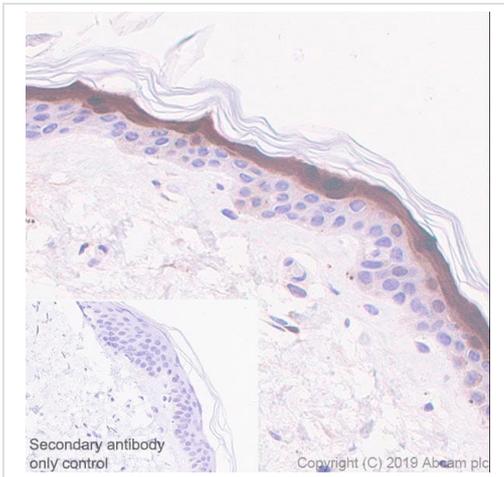
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized MDA-MB-231 (human breast adenocarcinoma epithelial cell) labeling FABP5 with ab255276 at 1/50 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) ([ab150077](#)) secondary antibody at 1/1000 dilution (green).

Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) ([ab195889](#)) at 1/200 was used as a counterstain (red).

The nuclear counterstain is DAPI (blue).

Confocal image showing cytoplasmic and nuclear staining in MDA-MB-231 cells.

Negative control: T-47D (PMID: 21356353).

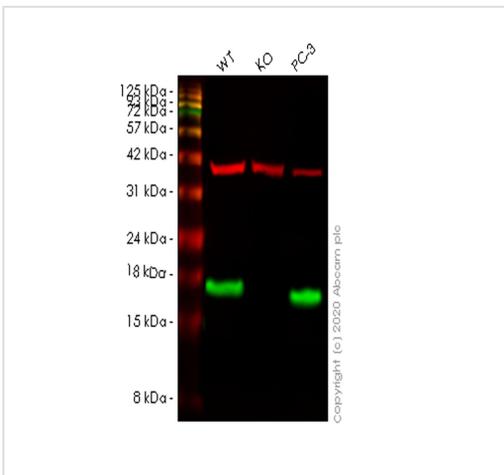


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FABP5 antibody [EPR22552-64] (ab255276)

Immunohistochemical analysis of paraffin-embedded human skin tissue labeling FABP5 with ab255276 at 1/4000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ready to use. Positive staining on human skin (PMID: 8092987) is observed. Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ready to use.

Heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0).



Western blot - Anti-FABP5 antibody [EPR22552-64] (ab255276)

All lanes : Anti-FABP5 antibody [EPR22552-64] (ab255276) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate

Lane 2 : FABP5 knockout HeLa cell lysate

Lane 3 : PC-3 cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) at 1/10000 dilution

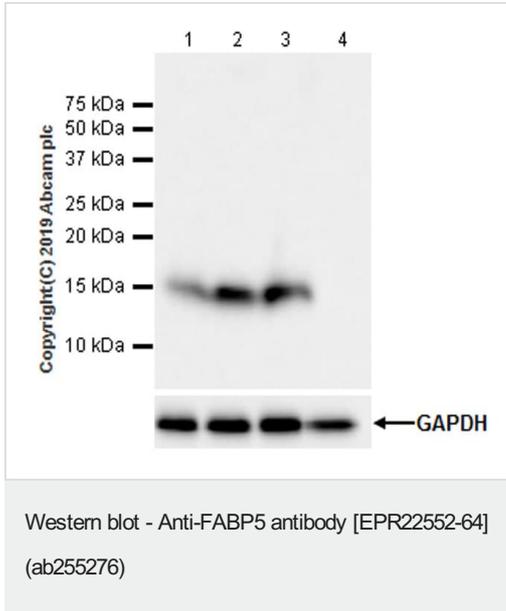
Predicted band size: 15 kDa

Observed band size: 17 kDa

Lanes 1-3: Merged signal (red and green). Green - ab255276 observed at 17 kDa. Red - loading control [ab8245](#) observed at 36 kDa.

ab255276 Anti-FABP5 antibody [EPR22552-64] was shown to specifically react with FABP5 in wild-type HeLa cells. Loss of signal was observed when knockout cell line [ab265905](#) (knockout cell lysate [ab257431](#)) was used. Wild-type and FABP5 knockout samples were subjected to SDS-PAGE. ab255276 and Anti-GAPDH antibody [6C5] - Loading Control ([ab8245](#)) were incubated at room temperature for 2.5 hours at 1 in 1000 dilution and 1 in

20000 dilution respectively. 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 in 20000 dilution for 1 hour at room temperature before imaging.



All lanes : Anti-FABP5 antibody [EPR22552-64] (ab255276) at 1/1000 dilution

Lane 1 : MDA-MB-231 (human breast adenocarcinoma cell line) whole cell lysate

Lane 2 : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Lane 3 : PC-3 (human prostate adenocarcinoma epithelial cell line) whole cell lysate

Lane 4 : T-47D (human ductal breast epithelial tumor cell line) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 15 kDa

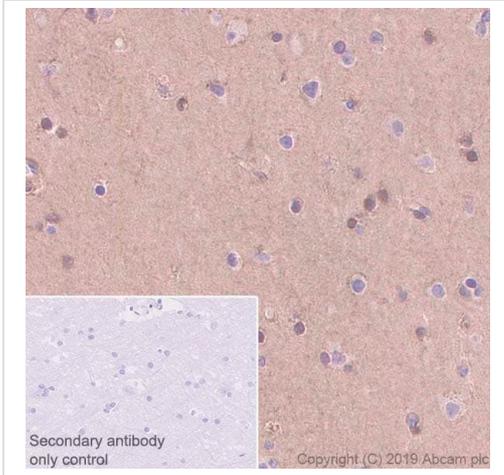
Observed band size: 15 kDa

Exposure time: 8 seconds

Blocking and dilution buffer: 5% NFDM/TBST.

The molecular weight observed is consistent with what has been described in the literature (PMID: 25260874).

Negative control: T47D (PMID: 21356353).

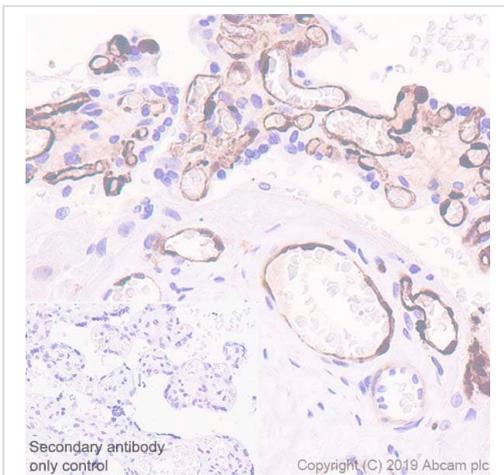


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FABP5 antibody
[EPR22552-64] (ab255276)

Immunohistochemical analysis of paraffin-embedded human cerebral cortex tissue labeling FABP5 with ab255276 at 1/4000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ready to use. Positive staining on human cerebral cortex (PMID: 24114376) is observed. Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ready to use.

Heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FABP5 antibody
[EPR22552-64] (ab255276)

Immunohistochemical analysis of paraffin-embedded human placenta tissue labeling FABP5 with ab255276 at 1/4000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ready to use. Positive staining on blood vessels of human placenta (PMID: 19625659) is observed. Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ready to use.

Heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0).

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-FABP5 antibody [EPR22552-64] (ab255276)

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

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