abcam

Product datasheet

Anti-FABP5 antibody [EPR22552-64] - BSA and Azide free ab255291

KO VALIDATED Recombinant RabMAb

1 Abreviews 7 Images

Overview

Product name	Anti-FABP5 antibody [EPR22552-64] - BSA and Azide free
Description	Rabbit monoclonal [EPR22552-64] to FABP5 - BSA and Azide free
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	ab255291 is the carrier-free version of **ab255276**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2

	Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR22552-64
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab255291 in the following tested applications.

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

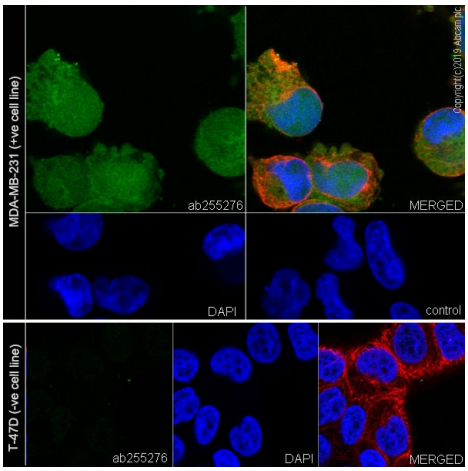
Application	Abreviews	Notes
ICC/IF		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 15 kDa (predicted molecular weight: 15 kDa).
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA 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] - BSA and Azide free (ab255291)

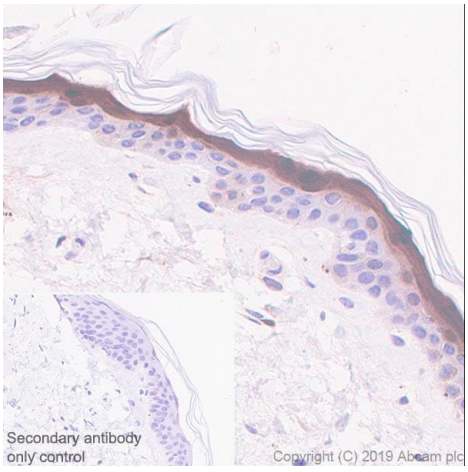
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized MDA-MB-231 (human breast adenocarcinoma epithelial cell) labeling FABP5 with **ab255276** at 1/50 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution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

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab255276**).



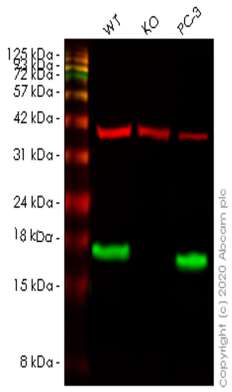
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FABP5 antibody [EPR22552-64] - BSA and Azide free (ab255291)

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).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab255276**).



Western blot - Anti-FABP5 antibody [EPR22552-64] - BSA and Azide free (ab255291)

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.

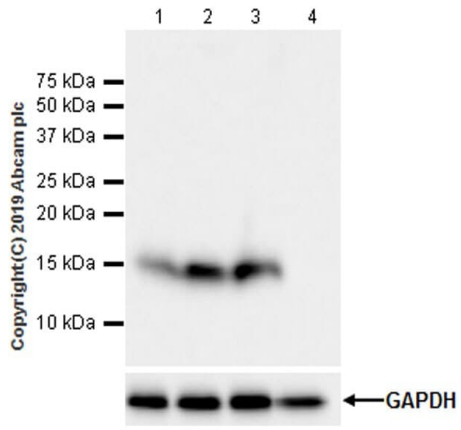
Secondary
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

Predicted band size: 15 kDa
Observed band size: 17 kDa

This data was developed using the same antibody clone in a different buffer formulation (**ab255276**).

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.



Western blot - Anti-FABP5 antibody [EPR22552-64] - BSA and Azide free (ab255291)

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

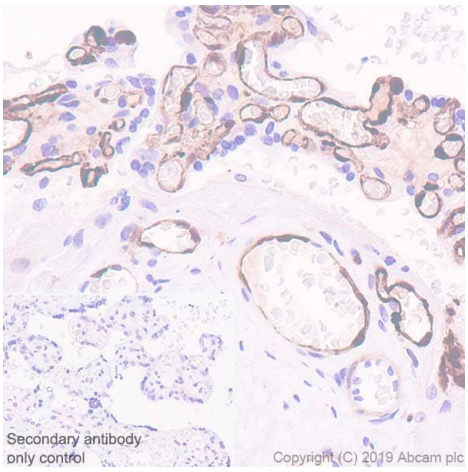
Exposure time: 8 seconds

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab255276**).

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).



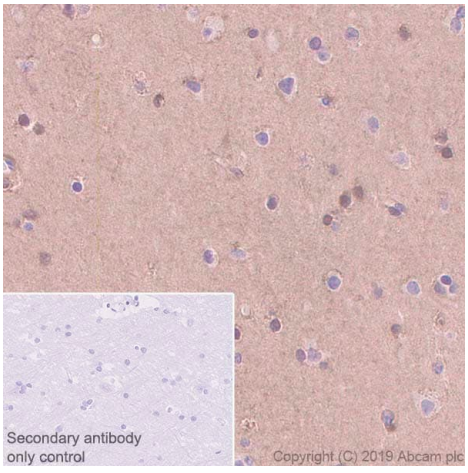
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FABP5 antibody [EPR22552-64] - BSA and Azide free (ab255291)

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).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab255276**).



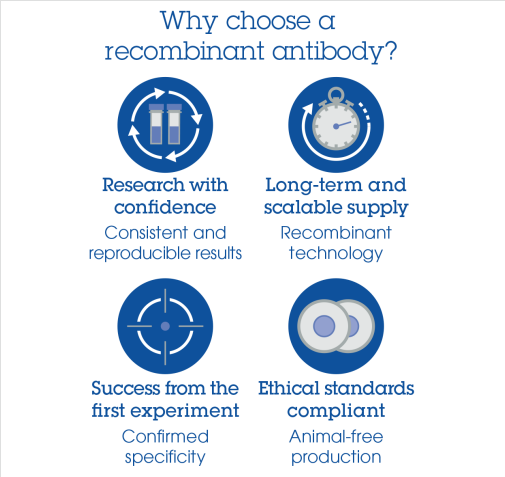
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FABP5 antibody [EPR22552-64] - BSA and Azide free (ab255291)

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).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab255276**).



Anti-FABP5 antibody [EPR22552-64] - BSA and Azide free (ab255291)

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