

## Product datasheet

# Human FABP5 knockout HeLa cell lysate ab257431

4 Images

### Overview

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<b>Product name</b>	Human FABP5 knockout HeLa cell lysate
<b>Product overview</b>	Knockout cell lysate achieved by CRISPR/Cas9.
<b>Parental Cell Line</b>	HeLa
<b>Organism</b>	Human
<b>Mutation description</b>	Knockout achieved by using CRISPR/Cas9, 22 bp deletion in exon2 and 2 bp deletion in exon2.
<b>Passage number</b>	<20
<b>Knockout validation</b>	Sanger Sequencing, Western Blot (WB)
<b>Reconstitution notes</b>	To use as WB control, resuspend the lyophilizate in 50 µL of LDS* Sample Buffer to have a final concentration of 2 mg/ml. For reducing conditions, we recommend a final concentration of 0.1 M DTT.

*\*Usage of SDS sample buffer is not recommended with these lyophilized lysates.*

**Notes**

**Lysate preparation:** Our lysates are made using RIPA buffer to which we add a protease inhibitor cocktail and phosphatase inhibitor cocktail (ratio: 300:100:10). *This means that the protein of interest is denatured.* If you require a native form of the protein please use the live cell version - found [here](#). Please refer to our lysis protocol for further details on how our lysates are prepared.

**User storage instructions:** After reconstitution, store the lysate at -80°C.

Access thousands of knockout cell lysates, generated from commonly used cancer cell lines. [See here for more information on knockout cell lysates.](#)

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**Tested applications**                      **Suitable for:** WB

## Properties

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**Storage instructions** Store at -80°C. Please refer to protocols.

Components	1 kit
ab262950 - Human FABP5 knockout HeLa cell lysate (Lyophilized)	1 x 100µg
ab255929 - Human Wild Type HeLa cell lysate (Lyophilized)	1 x 100µg

**Cell type** epithelial  
**Disease** Adenocarcinoma  
**Gender** Female  
**STR Analysis** Amelogenin X D5S818: 11, 12 D13S317: 12, 13.3 D7S820: 8, 12 D16S539: 9, 10 WWA: 16, 18 TH01: 7 TPOX: 8,12 CSF1PO: 9, 10

## Target

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**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.

## Applications

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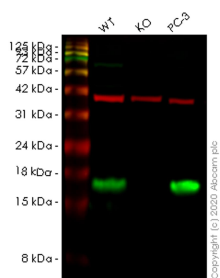
Our [Abpromise guarantee](#) covers the use of **ab257431** in the following tested applications.

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

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Predicted molecular weight: 15 kDa.

## Images

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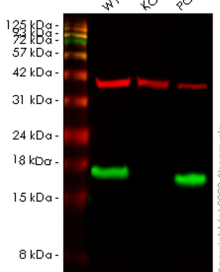
Western blot - Human FABP5 knockout HeLa cell lysate (ab257431)

**Lane 1:** Wild-type HeLa cell lysate (20 ug)

**Lane 2:** FABP5 knockout HeLa cell lysate (20 ug)

**Lane 3:** PC-3 cell lysate (20 ug)

[ab84028](#) 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. [ab84028](#) and Anti-GAPDH antibody [6C5] - Loading Control ([ab8245](#)) were incubated at room temperature for 2.5 hours at 1 in 500 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 - Human FABP5 knockout HeLa cell lysate (ab257431)

**Lane 1:** Wild-type HeLa cell lysate (20 ug)

**Lane 2:** FABP5 knockout HeLa cell lysate (20 ug)

**Lane 3:** PC-3 cell lysate (20 ug)

[ab255276](#) 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.

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Mut  CAGT TTTTATGGT GAGGTTTTACCATCA-----TGCCATTG
WT   CAGT TTTTATGGT GAGGTTTTACCATCACAAGTGATGATACAATCTGGCTTGGCCATTG
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Sanger Sequencing - Human FABP5 knockout HeLa cell lysate (ab257431)

Allele-1: 22 bp deletion in exon2

```
Mut  CAGT TTTTATGGT GAGGTTTTACCATCA--AGT GATGATACAATCTGGCTTGGCCATTG
WT   CAGT TTTTATGGT GAGGTTTTACCATCACAAGTGATGATACAATCTGGCTTGGCCATTG
```

Sanger Sequencing - Human FABP5 knockout HeLa cell lysate (ab257431)

Allele-2: 2 bp deletion in exon2

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

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