

## Product datasheet

# Human FERMT2 (Kindlin 2) knockout HeLa cell lysate ab257436

[2 Images](#)

### Overview

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<b>Product name</b>	Human FERMT2 (Kindlin 2) 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, Homozygous: 1 bp deletion in exon 2.
<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. <i>*Usage of SDS sample buffer is not recommended with these lyophilized lysates.</i>

### 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:** Lyophilizate may be stored at 4°C. After reconstitution, store at -20°C for short-term storage or -80°C for long-term storage.

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

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

Components	1 kit
ab260988 - Human FERMT2 knockout HeLa cell lysate	1 x 100µg
ab255929 - Human wild-type HeLa cell lysate	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

**Function** Participates in the connection between ECM adhesion sites and the actin cytoskeleton and also in the orchestration of actin assembly and cell shape modulation. Recruits migfilin (FBLP1) protein to cell-ECM focal adhesion sites.

**Tissue specificity** Ubiquitous. Found in numerous tumor tissues.

**Sequence similarities** Belongs to the kindlin family.  
Contains 1 FERM domain.  
Contains 1 PH domain.

**Domain** The FERM domain is not correctly detected by PROSITE or Pfam techniques because it contains the insertion of a PH domain.

**Cellular localization** Cytoplasm > cell cortex. Cytoplasm > cytoskeleton. Cell junction > focal adhesion. Within actin stress fibers at cell-ECM focal adhesion sites.

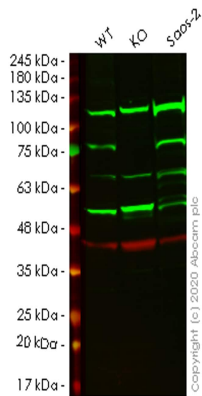
## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab257436 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: 78 kDa.

## Images



Western blot - Human FERMT2 knockout HeLa cell lysate (ab257436)

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

**Lane 2:** FERMT2 knockout HeLa cell lysate (20 µg)

**Lane 3:** Saos-2 cell lysate (20 µg)

**Lanes 1-3:** Merged signal (red and green). Green - **ab74030** observed at 78 kDa. Red - loading control **ab8245** observed at 36 kDa.

**ab74030** Anti-Kindlin 2 antibody was shown to specifically react with Kindlin 2 in wild-type HeLa cells. Loss of signal was observed when knockout cell line **ab265247** (knockout cell lysate ab257436) was used. Wild-type and Kindlin 2 knockout samples were subjected to SDS-PAGE. **ab74030** and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C 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.

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Mut  CCCACGTCCCGTCCGCGTAGCAGCCATCTG-CATCCTTATCCCGTCCAGAGCCATGGCTC
      |||
WT   CCCACGTCCCGTCCGCGTAGCAGCCATCTGGCATCCTTATCCCGTCCAGAGCCATGGCTC
```

Sanger Sequencing - Human FERMT2 knockout HeLa cell lysate (ab257436)

Homozygous: 1 bp deletion in exon 2

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

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