

## Product datasheet

# Human FSCN1 (Fascin) knockout HCT116 cell lysate ab257444

3 Images

### Overview

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<b>Product name</b>	Human FSCN1 (Fascin) knockout HCT116 cell lysate
<b>Product overview</b>	Knockout cell lysate achieved by CRISPR/Cas9.
<b>Parental Cell Line</b>	HCT116
<b>Organism</b>	Human
<b>Mutation description</b>	Knockout achieved by using CRISPR/Cas9, 1 bp deletion in exon1 and Insertion of the selection cassette in exon1.
<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
ab263554 - Human FSCN1 knockout HCT116 cell lysate	1 x 100µg
ab255555 - Human wild-type HCT116 cell lysate	1 x 100µg

**Cell type** epithelial  
**Disease** Carcinoma  
**STR Analysis** Amelogenin X D5S818: 10, 11 D13S317: 10, 12 D7S820: 11, 12 D16S539: 11, 13 vWA: 17, 22 TH01: 8,9 TPOX: 8, 9 CSF1PO: 7, 10

## Target

**Function** Organizes filamentous actin into bundles with a minimum of 4.1:1 actin/fascin ratio. Plays a role in the organization of actin filament bundles and the formation of microspikes, membrane ruffles, and stress fibers. Important for the formation of a diverse set of cell protrusions, such as filopodia, and for cell motility and migration.

**Tissue specificity** Ubiquitous.

**Sequence similarities** Belongs to the fascin family.

**Domain** Composed of four beta-trefoil domains.

**Post-translational modifications** Phosphorylation on Ser-39 inhibits the actin-binding ability of fascin.

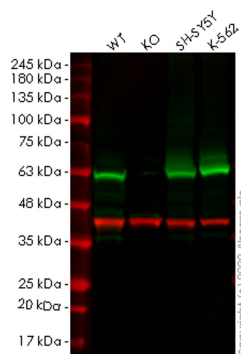
**Cellular localization** Cytoplasm > cytoskeleton. Cell projection > filopodium. Cell projection > invadopodium.

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab257444 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: 54 kDa.

## Images



Western blot - Human FSCN1 knockout HCT116 cell lysate (ab257444)

**Lane 1:** Wild-type HCT116 cell lysate (20 ug)

**Lane 2:** FSCN1 knockout HCT116 cell lysate (20 ug)

**Lane 3:** SH-SY5Y cell lysate (20 ug)

**Lane 4:** K-562 cell lysate (20 ug)

**ab126772** was shown to specifically react with Fascin in wild-type HCT116 cells. Loss of signal was observed when knockout cell line **ab266895** (knockout cell lysate ab257444) was used. Wild-type and Fascin knockout samples were subjected to SDS-PAGE. **ab126772** and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C 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  CACCTTGAACCCGAACGCCTCGGCCGTC - GGTACTTGTGCCGAGTTGATGAGGCCGAA
      |||
WT   CACCTTGAACCCGAACGCCTCGGCCGTCAGGTACTTGTGCCGAGTTGATGAGGCCGAA
  
```

Sanger Sequencing - Human FSCN1 knockout HCT116 cell lysate (ab257444)

Allele-1: 1 bp deletion in exon1

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Mut  CCGAACGCCTCGGCCGTCAG****Insertion*****GTACTTGTGCCGAGTTGA
      |||
WT   CCGAACGCCTCGGCCGTCAG          GTACTTGTGCCGAGTTGA
  
```

Sanger Sequencing - Human FSCN1 knockout HCT116 cell lysate (ab257444)

Allele-2: Insertion of the selection cassette in exon1

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