

Product datasheet

Human FLOT1 (Flotillin 1) knockout HEK-293T cell lysate ab257109

[3 Images](#)

Overview

Product name	Human FLOT1 (Flotillin 1) knockout HEK-293T cell lysate
Product overview	Knockout cell lysate achieved by CRISPR/Cas9.
Parental Cell Line	HEK293T
Organism	Human
Mutation description	Knockout achieved by using CRISPR/Cas9, 8 bp deletion in exon10.
Passage number	<20
Knockout validation	Sanger Sequencing, Western Blot (WB)
Reconstitution notes	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
ab262061 - Human FLOT1 knockout HEK293T cell lysate	1 x 100µg
ab255553 - Human wild-type HEK293T cell lysate	1 x 100µg

Cell type epithelial

STR Analysis Amelogenin X D5S818: 8, 9 D13S317: 12, 14 D7S820: 11 D16S539: 9, 13 vWA: 16, 19 TH01: 7, 9.3 TPOX: 11 CSF1PO: 11, 12

Target

Function May act as a scaffolding protein within caveolar membranes, functionally participating in formation of caveolae or caveolae-like vesicles.

Sequence similarities Belongs to the band 7/mec-2 family. Flotillin subfamily.

Cellular localization Cell membrane. Membrane > caveola. Melanosome. Endosome. Membrane-associated protein of caveolae. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

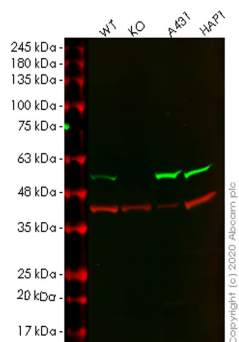
Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab257109 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: 47 kDa.

Images



Western blot - Human FLOT1 knockout HEK293T cell lysate (ab257109)

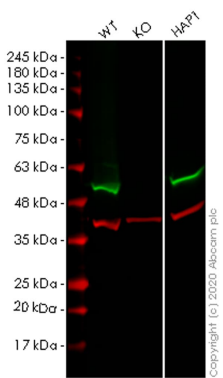
Lane 1: Wild-type HEK293T cell lysate (20 ug)

Lane 2: FLOT1 knockout HEK293T cell lysate (20 ug)

Lane 3: A431 cell lysate (20 ug)

Lane 4: HAP1 cell lysate (20 ug)

ab78178 was shown to specifically react with Flotillin 1 in wild-type HEK293T cells. Loss of signal was observed when knockout cell line **ab267276** (knockout cell lysate ab257109) was used. Wild-type and Flotillin 1 knockout samples were subjected to SDS-PAGE. **ab78178** 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.



Western blot - Human FLOT1 knockout HEK293T cell lysate (ab257109)

Lane 1: Wild-type HEK293T cell lysate (20 ug)

Lane 2: FLOT1 knockout HEK293T cell lysate (20 ug)

Lane 3: HAP1 cell lysate (20 ug)

ab133497 was shown to specifically react with Flotillin 1 in wild-type HEK293T cells. Loss of signal was observed when knockout cell line **ab267276** (knockout cell lysate ab257109) was used. Wild-type and Flotillin 1 knockout samples were subjected to SDS-PAGE. **ab133497** 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  TGCCTCTTAACTCACCCGC-----GGCTTCTGCCTCCGCCTGCAT AATTAGTTGGG
      |||
WT   TGCCTCTTAACTCACCCGCACAGACGCGGCTTCTGCCTCCGCCTGCAT AATTAGTTGGG
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Homozygous: 8 bp deletion in exon10

Sanger Sequencing - Human FLOT1 knockout

HEK293T cell lysate (ab257109)

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