

Product datasheet

Human FLOT2 (Flotillin 2/ESA) knockout HEK-293T cell lysate ab257442

[2 Images](#)

Overview

Product name	Human FLOT2 (Flotillin 2/ESA) 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, 5 bp deletion in exon4.
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
ab262088 - Human FLOT2 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. May be involved in epidermal cell adhesion and epidermal structure and function.

Tissue specificity In skin, expressed in epidermis and epidermal appendages but not in dermis. Expressed in all layers of the epidermis except the basal layer. In hair follicles, expressed in the suprabasal layer but not the basal layer. Also expressed in melanoma and carcinoma cell lines, fibroblasts and foreskin melanocytes.

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

Cellular localization Cell membrane. Membrane > caveola. Endosome. Membrane-associated protein of caveolae.

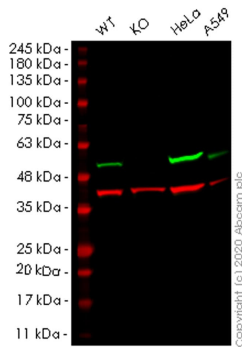
Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab257442 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 FLOT2 knockout HEK293T cell lysate (ab257442)

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

Lane 2: FLOT2 knockout HEK293T cell lysate (20 ug)

Lane 3: HeLa cell lysate (20 ug)

Lane 4: A549 cell lysate (20 ug)

ab181988 was shown to specifically react with Flotillin 2/ESA in wild-type HEK293T cells. Loss of signal was observed when knockout cell line **ab266847** (knockout cell lysate ab257442) was used. Wild-type and Flotillin 2/ESA knockout samples were subjected to SDS-PAGE. **ab181988** 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  CATGACGGAGAAGGAACCTCGCCCTG-----TGAGCAGTTTCTGGGTAAAGAATGTGCA
      |||
WT   CATGACGGAGAAGGAACCTCGCCCTGGCTTGTGAGCAGTTTCTGGGTAAAGAATGTGCA
  
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Homozygous: 5 bp deletion in exon4

Sanger Sequencing - Human FLOT2 knockout HEK293T cell lysate (ab257442)

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