

## Product datasheet

# Human SNAPIN knockout HeLa cell lysate ab263359

4 Images

### Overview

Product name	Human SNAPIN knockout HeLa cell lysate
Product overview	Knockout cell lysate achieved by CRISPR/Cas9.
Parental Cell Line	HeLa
Organism	Human
Mutation description	Knockout achieved by using CRISPR/Cas9, 29 bp deletion in exon 1 and 35 bp deletion in exon 1 and 50 bp deletion in exon 1 and Insertion of the selection cassette in exon 1.
Passage number	<20
Knockout validation	Sanger Sequencing
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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Properties

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

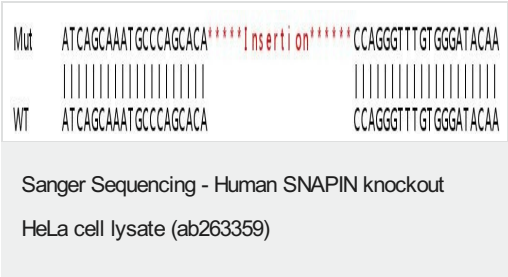
Components	1 kit
ab261616 - Human SNAPIN knockout HeLa cell lysate	1 x 100µg
ab255929 - Human wild-type HeLa cell lysate	1 x 100µg

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

Target

Function	May modulate a step between vesicle priming, fusion and calcium-dependent neurotransmitter release by potentiating the interaction of synaptotagmins with the SNAREs and the plasma-membrane-associated protein SNAP25. Its phosphorylation state influences exocytotic protein interactions and may regulate synaptic vesicle exocytosis. May also have a role in the mechanisms of SNARE-mediated membrane fusion in non-neuronal cells.
Tissue specificity	Expressed in male germ cells of adult testis (at protein level).
Sequence similarities	Belongs to the SNAPIN family.
Developmental stage	Expressed in germ cells of 22-week prenatal testis.
Cellular localization	Cytoplasm. Membrane. Cytoplasmic vesicle membrane. Cytoplasmic vesicle > secretory vesicle > synaptic vesicle membrane. Cell junction > synapse > synaptosome. Cytoplasm > perinuclear region. May be cytoplasmic and peripheral membrane bound or anchored to the vesicular membrane through an N-terminal signal anchor (By similarity). Co-localizes with NANOS1 and PUM2 in the perinuclear region of germ cells.

Images



Allele-1: Insertion of the selection cassette in exon 1

Mut	GCC-----ATCACA
WT	GCCCCGCCACCGGGTCCCTGCCCGGATACAGCGGCGGAACCGCCCCGCCATCACA
Sanger Sequencing - Human SNAPIN knockout	
HeLa cell lysate (ab263359)	

Allele-2: 50 bp deletion in exon 1

Mut	GCC-----GAACGACCGCGCCATCACA
WT	GCCCCGCCACCGGGTCCCTGCCCGGATACAGCGGCGGAACCGCCCCGCCATCACA
Sanger Sequencing - Human SNAPIN knockout	
HeLa cell lysate (ab263359)	

Allele-3: 35 bp deletion in exon 1

Mut	GCC-----GCGGCGGAACCGCGCCATCACA
WT	GCCCCGCCACCGGGTCCCTGCCCGGATACAGCGGCGGAACCGCCCCGCCATCACA
Sanger Sequencing - Human SNAPIN knockout	
HeLa cell lysate (ab263359)	

Allele-4: 29 bp deletion in exon 1

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