

Product datasheet

Human SH2B2 (APS) knockout HEK-293T cell lysate ab263344

2 Images

Overview

Product name	Human SH2B2 (APS) 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, 1 bp insertion in exon2 and Insertion of the selection cassette in exon2.
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
ab262761 - Human SH2B2 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

Relevance APS (adapter protein with Pleckstrin homology and Src homology 2 domains) is a member of the Lnk family, an adaptor protein that is involved in B cell signaling, insulin signaling and cytoskeletal reorganisation. A PH and an SH2 domain containing adaptor protein that links activated tyrosine kinases to signaling pathways. It is tyrosine phosphorylated by JAK2, KIT and other kinases during B cell receptor stimulation of many different cytokines, chemokines and leukokines. APS has been shown to inhibit the JAK STAT pathway in collaboration with cCbl.

Cellular localization Cytoplasmic before PDGF stimulation. After PDGF stimulation, localised at the cell membrane.

Images

Mut	GCAGAACTTGTGCGCAAAGT*****Insertion*****CCACGGCGGCCGCCTGCGCA
WT	GCAGAACTTGTGCGCAAAGT CCACGGCGGCCGCCTGCGCA

Sanger Sequencing - Human SH2B2 knockout
HEK293T cell lysate (ab263344)

Allele-1: Insertion of the selection cassette in exon2

Mut	GCAGGAAACGGCAGAACTTGTGCGCAAAGTCCACGGCGGCCGCCTGCATGCAGCTCG
WT	GCAGGAAACGGCAGAACTTGTGCGCAAAGT CCACGGCGGCCGCCTGCATGCAGCTCG

Sanger Sequencing - Human SH2B2 knockout
HEK293T cell lysate (ab263344)

Allele-2: 1 bp insertion in exon2

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