

Product datasheet

Human IPPK (IPK1) knockout HEK293T cell lysate
ab258925

2 Images

Overview

Product name	Human IPPK (IPK1) knockout HEK293T 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 deletion in exon9 and 29 bp deletion in exon9.
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: After reconstitution, store the lysate at -80°C.

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
ab262579 - Human IPPK knockout HEK293T cell lysate (Lyophilized)	1 x 100µg
ab255553 - Human Wild Type HEK293T cell lysate (Lyophilized)	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 Phosphorylates Ins(1,3,4,5,6)P5 at position 2 to form Ins(1,2,3,4,5,6)P6 (InsP6 or phytate). InsP6 is involved in many processes such as mRNA export, non-homologous end-joining, endocytosis, ion channel regulation. It also protects cells from TNF-alpha-induced apoptosis.

Tissue specificity Ubiquitously expressed, with high expression in heart, brain, testis and placenta.

Sequence similarities Belongs to the IPK1 type 2 family.

Domain The EXKPK motif is conserved in inositol-pentakisphosphate 2-kinases of both family 1 and 2.

Cellular localization Cytoplasm. Nucleus.

Images

Mut	TACGGCTGCAAAGATGCCCGGAGCCCGTG-----G
WT	TACGGCTGCAAAGATGCCCGGAGCCCGTGGCTGACTGGAGCGAGCTTGACACACCACTG

Sanger Sequencing - Human IPPK knockout
HEK293T cell lysate (ab258925)

Allele-1: 29 bp deletion in exon9

Mut	TACGGCTGCAAAGATGCCCGGAGCCCGTGCTGACTGGAGCGAGCTTGACACACCACTG
WT	TACGGCTGCAAAGATGCCCGGAGCCCGTGGCTGACTGGAGCGAGCTTGACACACCACTG

Sanger Sequencing - Human IPPK knockout
HEK293T cell lysate (ab258925)

Allele-2: 1 bp deletion in exon9

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