abcam

Product datasheet

Human MPLKIP (TTDN1) knockout HeLa cell lysate ab258050

2 Images

Overview

Product name	Human MPLKIP (TTDN1) 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, 1 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. **Usage of SDS sample buffer is not recommended with these lyophilized lysates.*
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.** Abcam has not and does not intend to apply for the REACH Authorisation of customers' uses of products that contain European Authorisation list (Annex XIV) substances. It is the responsibility of our customers to check the necessity of application of REACH Authorisation, and any other relevant authorisations, for their intended uses. This product is subject to limited use licenses from The Broad Institute, ERS Genomics Limited and Sigma-Aldrich Co. LLC, and is developed with patented technology. For full details of the licenses and patents please refer to our **limited use license** and **patent pages**.

Properties

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

Components	1 kit
ab260441 - Human MPLKIP knockout HeLa cell lysate	1 x 100µg
ab255552 - 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

Relevance Defects in TTDN1 are a cause of nonphotosensitive trichothiodystrophy (TTD), also known as Amish brittle hair brain syndrome (ABHS), hair-brain syndrome and BIDS syndrome. TTD is an autosomal recessive disorder characterized by short stature, intellectual impairment, sulfur deficient brittle hair and decreased male fertility, but not cutaneous photosensitivity.

Cellular localization Nuclear

Images

Sanger Sequencing - Human MPLKIP knockout HeLa cell lysate (ab258050)

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

Sanger Sequencing - Human MPLKIP knockout HeLa cell lysate (ab258050)

Allele-2: 1 bp deletion in exon 1

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