abcam

Product datasheet

Human SDHAF2 (C11orf79) knockout HeLa cell lysate ab263341

2 Images

Overview

Product name	Human SDHAF2 (C11orf79) 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 exon1 and 2 bp deletion in exon1.
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 and ERS Genomics Limited, and is developed with patented technology. For full details of the limited use licenses and relevant 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
ab261605 - Human SDHAF2 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 Required for insertion of FAD cofactor into SDHA, the catalytic subunit of succinate dehydrogenase (SDH). SDH is involved in complex II of the mitochondrial electron transport chain and is responsible for transferring electrons from succinate to ubiquinone (coenzyme Q). In is unclear whether it participates in the chemistry of FAD attachment (enzymatic function) or acts as a chaperone that maintains SDHA in a conformation that is susceptible to autocatalytic FAD attachment.

Involvement in disease Defects in SDHAF2 are the cause of hereditary paragangliomas type 2 (PGL2) [MIM:601650]; also known as familial non-chromaffin paragangliomas type 2. Paragangliomas refer to rare and mostly benign tumors that arise from any component of the neuroendocrine system. PGL2 is characterized by the development of non-chromaffin paragangliomas of the head and neck. There is a fairly equal distribution of different locations in the head and neck, with the most common location at the carotid body, and a tendency toward tumor multiplicity.

Sequence similarities Belongs to the SDHAF2 family.

Cellular localization Mitochondrion.

Images

Sanger Sequencing - Human SDHAF2 knockout HeLa cell lysate (ab263341)

Allele-1: 2 bp deletion in exon1

Sanger Sequencing - Human SDHAF2 knockout HeLa cell lysate (ab263341)

Allele-2: 1 bp deletion in exon1

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.com/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors