abcam

Product datasheet

Human MTMR2 knockout HeLa cell lysate ab263262

2 Images

Overview

Product name	Human MTMR2 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, 2 bp deletion in exon 5 and Insertion of the selection cassette in exon 5.
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:** 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. 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

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

Components	**1 kit**
ab261568 - Human MTMR2 knockout HeLa cell lysate (Lyophilized)	1 x 100µg
ab255929 - Human Wild Type HeLa cell lysate (Lyophilized)	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	Phosphatase that acts on lipids with a phosphoinositol headgroup. Has phosphatase activity towards phosphatidylinositol-3-phosphate and phosphatidylinositol-3,5-bisphosphate.
Involvement in disease	Defects in MTMR2 are the cause of Charcot-Marie-Tooth disease type 4B1 (CMT4B1) [MIM:601382]. CMT4B1 is a recessive, severe form of Charcot-Marie-Tooth disease, the most common inherited disorder of the peripheral nervous system. Charcot-Marie-Tooth disease is classified in two main groups on the basis of electrophysiologic properties and histopathology: primary peripheral demyelinating neuropathy and primary peripheral axonal neuropathy. Demyelinating CMT neuropathies are characterized by severely reduced nerve conduction velocities (less than 38 m/sec), segmental demyelination and remyelination with onion bulb formations on nerve biopsy, slowly progressive distal muscle atrophy and weakness, absent deep tendon reflexes, and hollow feet. By convention, autosomal recessive forms of demyelinating Charcot-Marie-Tooth disease are designated CMT4.
Sequence similarities	Belongs to the protein-tyrosine phosphatase family. Non-receptor class myotubularin subfamily. Contains 1 GRAM domain. Contains 1 myotubularin phosphatase domain.
Domain	The coiled-coil domain mediates interaction with SBF2.
Cellular localization	Cytoplasm. Membrane. Partly associated with membranes.

Images

Sanger Sequencing - Human MTMR2 knockout HeLa cell lysate (ab263262)

Allele-1: 2 bp deletion in exon 5

Sanger Sequencing - Human MTMR2 knockout

HeLa cell lysate (ab263262)

Allele-2: Insertion of the selection cassette in exon 5

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