abcam

Product datasheet

Human TNK1 knockout HeLa cell lysate ab263394

2 Images

Overview

Product name Human TNK1 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 2 and Insertion of the selection

cassette in exon 2.

Passage number <20

Knockout validation Sanger Sequencing

Reconstitution notesTo 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.

 $\hbox{*Usage of SDS sample buffer is not recommended with these lyophilized lysates.}$

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.

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licenses and patents please refer to our limited use license and patent pages.

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Properties

Storage instructions

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

Components	1 kit
ab260842 - Human TNK1 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

Function Involved in negative regulation of cell growth. Has tumor suppressor properties. Plays a negative

regulatory role in the Ras-MAPK pathway. May function in signaling pathways utilized broadly

during fetal development and more selectively in adult tissues and in cells of the

lymphohematopoietic system. Could specifically be involved in phospholipid signal transduction.

Tissue specificity Expressed in all umbilical cord blood, bone marrow and adult blood cell sub-populations and in

several leukemia cell lines. Highly expressed in fetal blood, brain, lung, liver and kidney. Detected at lower levels in adult prostate, testis, ovary, small intestine and colon. Not expressed in adult

lung, liver, kidney or brain.

Sequence similarities Belongs to the protein kinase superfamily. Tyr protein kinase family.

Contains 1 protein kinase domain.

Contains 1 SH3 domain.

Post-translational

modifications

Autophosphorylated on tyrosine residues.

Cellular localization Cytoplasm. Membrane.

Images

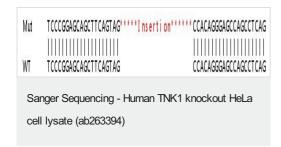
 ${\tt Mut} \qquad {\tt ACTGGATGTCCCGGAGCAGCTTCAGTAGC-ACAGGGAGCCAGCCTCAGGAAGCATGTCTG}$

ACT GGAT GT CCCGGAGCAGCTT CAGT AGCCACAGGGAGCCAGCCT CAGGAAGCAT GT CT G

Sanger Sequencing - Human TNK1 knockout HeLa

cell lysate (ab263394)

Allele-1: 1 bp deletion in exon 2



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

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