

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 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: 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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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

Mut	ACTGGATGTCCCGGAGCAGCTTCAGTAGC-ACAGGGAGCCAGCCTCAGGAAGCATGTCTG
WT	ACTGGATGTCCCGGAGCAGCTTCAGTAGCCACAGGGAGCCAGCCTCAGGAAGCATGTCTG

Allele-1: 1 bp deletion in exon 2

Sanger Sequencing - Human TNK1 knockout HeLa cell lysate (ab263394)

Mut	TCCCAGGAGCAGTTTCAGTAG	*****Insertion*****	CCACAGGGAGCCAGCCTCAG
WT	TCCCAGGAGCAGTTTCAGTAG		CCACAGGGAGCCAGCCTCAG

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

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