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TXNIP Knockout HuH-7 Cell Lysate, Homozygous

Catalog No.: RM02405

Basic Information

Catalog No.
RM02405

Category
Cell Lysate

Parental Cell line
HuH-7

Genotype
Knockout

Gene Information

Gene Symbol
TXNIP

Species
Human

Gene ID
10628

Swiss Prot
Q9H3M7

Synonyms
ARRDC6; EST01027; HHCPA78; THIF; VDUP1

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Background

This gene encodes a thioredoxin-binding protein that is a member of the alpha arrestin protein family. Thioredoxin is a thiol-oxidoreductase that is a major regulator of cellular redox signaling which protects cells from oxidative stress. This protein inhibits the antioxidative function of thioredoxin resulting in the accumulation of reactive oxygen species and cellular stress. This protein also functions as a regulator of cellular metabolism and of endoplasmic reticulum (ER) stress. This protein may also function as a tumor suppressor. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]

Product Information

Description
TXNIP Knockout HuH-7 Cell Line is engineered from HuH-7 cell line with Gene-Editing technology.
Allele-1:76bp deletion in exon2
Allele-2:76bp deletion in exon2
Mammalian cells such as human, rat and mouse cells are normally diploid with two alleles. Homozygote: both alleles were knocked out, mRNA has no signal, no expression of proteins. Heterozygote: only one allele was knocked out, the mRNA transcript levels was decreased compared to wild type, and the protein expression levels was also lower than that of the wild type.

Packaging
1 vial parental cell Lysate and 1 vial knockout cell Lysate

Shipping Conditions
4℃

Amount
50μL, 2μg/μL.

Storage
Lysate is stable for 12 months when stored at -20℃. Minimizing freeze-thaw cycles.

Protocol
To be used as WB control. Lysate is supplied in 1× SDS sample buffer (2% SDS, 60 mM Tris-HCl pH 6.8, 10% Glycerol, 0.02% Bromophenol blue, 60 mM beta-mercaptoethanol). Lysate should be boiled for 3 - 5 minutes before loading onto gel.

Sequencing data

WT TATGGGTGTGTAGA**********CTGGTGGATGTCAA
Mut TATGGGTGTGTAGA***Deletion***CTGGTGGATGTCAA
Allele-1: 76bp deletion in exon2

WT TATGGGTGTGTAGA**********CTGGTGGATGTCAA
Mut TATGGGTGTGTAGA***Deletion***CTGGTGGATGTCAA
Allele-2: 76bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and TXNIP knockout (KO) Huh-7 cells, using sanger sequencing.