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ATF6 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02070

Basic Information

Catalog No.
RM02070

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockout

Background

This gene encodes a transcription factor that activates target genes for the unfolded protein response (UPR) during endoplasmic reticulum (ER) stress. Although it is a transcription factor, this protein is unusual in that it is synthesized as a transmembrane protein that is embedded in the ER. It functions as an ER stress sensor/transducer, and following ER stress-induced proteolysis, it functions as a nuclear transcription factor via a cis-acting ER stress response element (ERSE) that is present in the promoters of genes encoding ER chaperones. This protein has been identified as a survival factor for quiescent but not proliferative squamous carcinoma cells. There have been conflicting reports about the association of polymorphisms in this gene with diabetes in different populations, but another polymorphism has been associated with increased plasma cholesterol levels. This gene is also thought to be a potential therapeutic target for cystic fibrosis. [provided by RefSeq, Aug 2011]

Gene Information

Gene Symbol
ATF6

Species
Human

Gene ID
22926

Swiss Prot
P18850

Synonyms
ACHM7; ATF6A

Product Information

Description
ATF6 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.
Allele-1:exon2 was deleted
Allele-2:exon2 was deleted
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.

Contact

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Sequencing data

WT ATGAGAAACCTTAA**********CCTAGGGATGGGTG
Mut ATGAGAAACCTTAA***Deletion***CCTAGGGATGGGTG
Allele-1: exon2 was deleted

WT TGGCTAATGAGAAA**********GTCACTAATCTGCC
Mut TGGCTAATGAGAAA***Deletion***GTCACTAATCTGCC
Allele-2: exon2 was deleted

Genome sequence analysis of PCR products from parental (WT) and ATF6 knockout (KO) HeLa cells, using sanger sequencing.