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DFFA Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02385

Basic Information

Catalog No.
RM02385

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Gene Information

Gene Symbol
DFFA

Species
Human

Gene ID
1676

Swiss Prot
O00273

Synonyms
DFF-45; DFF1; ICAD

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Background

Apoptosis is a cell death process that removes toxic and/or useless cells during mammalian development. The apoptotic process is accompanied by shrinkage and fragmentation of the cells and nuclei and degradation of the chromosomal DNA into nucleosomal units. DNA fragmentation factor (DFF) is a heterodimeric protein of 40-kD (DFFB) and 45-kD (DFFA) subunits. DFFA is the substrate for caspase-3 and triggers DNA fragmentation during apoptosis. DFF becomes activated when DFFA is cleaved by caspase-3. The cleaved fragments of DFFA dissociate from DFFB, the active component of DFF. DFFB has been found to trigger both DNA fragmentation and chromatin condensation during apoptosis. Two alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product Information

Description
DFFA Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:83bp deletion in exon2
Allele-2:83bp 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
Store at -20℃

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 CTGGCCATTGATAA**********ATACTAAGTTTGTG
Mut CTGGCCATTGATAA***Deletion***ATACTAAGTTTGTG
Allele-1: 83bp deletion in exon2

WT CTGGCCATTGATAA**********ATACTAAGTTTGTG
Mut CTGGCCATTGATAA***Deletion***ATACTAAGTTTGTG
Allele-2: 83bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and DFFA knockout (KO) 293T cells, using sanger sequencing.