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CASP9 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02303

Basic Information

Catalog No.
RM02303

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Background

This gene encodes a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce two subunits, large and small, that dimerize to form the active enzyme. This protein can undergo autoproteolytic processing and activation by the apoptosome, a protein complex of cytochrome c and the apoptotic peptidase activating factor 1; this step is thought to be one of the earliest in the caspase activation cascade. This protein is thought to play a central role in apoptosis and to be a tumor suppressor. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2013]

Gene Information

Gene Symbol
CASP9

Species
Human

Gene ID
842

Swiss Prot
P55211

Synonyms
APAF-3; APAF3; ICE-LAP6; MCH6; PPP1R56

Product Information

Description
CASP9 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:53bp deletion in exon1
Allele-2:77bp deletion in exon1
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

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WT    TGCTCAGACCAGAG**************TTCTGGAGGATTTG
Mut   TGCTCAGACCAGAG***Deletion***TTCTGGAGGATTTG
Allele-1:    53bp deletion in exon1

WT    GTGCTCAGACCAGA**************ATTTAATTTTAGCA
Mut   GTGCTCAGACCAGA***Deletion***ATTTAATTTTAGCA
Allele-2:    77bp deletion in exon1
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Genome sequence analysis of PCR products from parental (WT) and CASP9 Knockout (KO) 293T cells, using sanger sequencing.