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CAPN2 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02367

Basic Information

Catalog No.
RM02367

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockout

Background

The calpains, calcium-activated neutral proteases, are nonlysosomal, intracellular cysteine proteases. The mammalian calpains include ubiquitous, stomach-specific, and muscle-specific proteins. The ubiquitous enzymes consist of heterodimers with distinct large, catalytic subunits associated with a common small, regulatory subunit. This gene encodes the large subunit of the ubiquitous enzyme, calpain 2. Multiple heterogeneous transcriptional start sites in the 5' UTR have been reported. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2009]

Gene Information

Gene Symbol
CAPN2

Species
Human

Gene ID
824

Swiss Prot
P17655

Synonyms
CANP2; CANPL2; CANPml; mCANP

Product Information

Description
CAPN2 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

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WT    TTGTGGGTCTCGTT**************TGTAAGGCTGTGGG
Mut   TTGTGGGTCTCGTT***Deletion***TGTAAGGCTGTGGG
Allele-1: exon2 was deleted

WT    TTGTGGGTCTCGTT**************TGTAAGGCTGTGGG
Mut   TTGTGGGTCTCGTT***Deletion***TGTAAGGCTGTGGG
Allele-2: exon2 was deleted
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Genome sequence analysis of PCR products from parental (WT) and CAPN2 knockout (KO) HeLa cells, using sanger sequencing.