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CAST Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02374

Basic Information

Catalog No.
RM02374

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockout

Gene Information

Gene Symbol
CAST

Species
Human

Gene ID
831

Swiss Prot
P20810

Synonyms
BS-17; PLACK

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Background

The protein encoded by this gene is an endogenous calpain (calcium-dependent cysteine protease) inhibitor. It consists of an N-terminal domain L and four repetitive calpain-inhibition domains (domains 1-4), and it is involved in the proteolysis of amyloid precursor protein. The calpain/calpastatin system is involved in numerous membrane fusion events, such as neural vesicle exocytosis and platelet and red-cell aggregation. The encoded protein is also thought to affect the expression levels of genes encoding structural or regulatory proteins. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jun 2010]

Product Information

Description
CAST Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.
Allele-1:1bp deletion in exon4
Allele-2:2bp deletion in exon4
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 CAAGCAGGCATCAGATACAGGAAGTAACG
Mut CAAGCAGGCATCAG- TACAGGAAGTAACG
Allele-1: 1bp deletion in exon4

WT CCAAGCAGGCATCAGATACAGGAAGTAACG
Mut CCAAGCAGGCATCA - -TACAGGAAGTAACG
Allele-2: 2bp deletion in exon4

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