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HEXA Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02355

Basic Information

Catalog No.
RM02355

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockout

Background

This gene encodes a member of the glycosyl hydrolase 20 family of proteins. The encoded preproprotein is proteolytically processed to generate the alpha subunit of the lysosomal enzyme beta-hexosaminidase. This enzyme, together with the cofactor GM2 activator protein, catalyzes the degradation of the ganglioside GM2, and other molecules containing terminal N-acetyl hexosamines. Mutations in this gene lead to an accumulation of GM2 ganglioside in neurons, the underlying cause of neurodegenerative disorders termed the GM2 gangliosidoses, including Tay-Sachs disease (GM2-gangliosidosis type I). Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed. [provided by RefSeq, Jan 2016]

Gene Information

Gene Symbol
HEXA

Species
Human

Gene ID
3073

Swiss Prot
P06865

Synonyms
TSD

Product Information

Description
HEXA Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.
Allele-1:85bp deletion in exon1
Allele-2:94bp 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

WT TTCGCAGGACGGGC**********CGATGTCAGCTCGG
Mut TTCGCAGGACGGGC***Deletion***CGATGTCAGCTCGG
Allele-1: 85bp deletion in exon1

WT TTCGCAGGACGGGC**********TCGGCCGCGCAGCC
Mut TTCGCAGGACGGGC***Deletion***TCGGCCGCGCAGCC
Allele-2: 94bp deletion in exon1

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