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FTO Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM50208

Basic Information

Catalog No.
RM50208

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Gene Information

Gene Symbol
58kDa

Species
Human

Gene ID
79068

Swiss Prot
Q9C0B1

Synonyms
ALKBH9; BMIQ14; GDFD

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Background

This gene is a nuclear protein of the AlkB related non-haem iron and 2-oxoglutarate-dependent oxygenase superfamily but the exact physiological function of this gene is not known. Other non-heme iron enzymes function to reverse alkylated DNA and RNA damage by oxidative demethylation. Studies in mice and humans indicate a role in nervous and cardiovascular systems and a strong association with body mass index, obesity risk, and type 2 diabetes. [provided by RefSeq, Jul 2011]

Product Information

Description
FTO Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:50bp deletion in exon3
Allele-2:52bp deletion in exon3
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.

Sequencing data

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WT    GCTTATTTCGGG********************CTCATTGGTAA
Mut   GCTTATTTCGGG***Deletion(50bp)****CTCATTGGTAA
Allele-1:  50bp deletion in exon3

WT     GCTTATTTCGGG********************CATTGGTAATCC
Mut    GCTTATTTCGGG***Deletion(52bp)****CATTGGTAATCC
Allele-2:  52bp deletion in exon3
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Genome sequence analysis of PCR products from parental (WT) and FTO knockout (KO) 293T cells, using sanger sequencing.