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IGF1 Knockdown HeLa Cell Lysate, Heterozygous

Catalog No.: RM02550

Basic Information

Catalog No.
RM02550

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockdown

Gene Information

Gene Symbol
IGF1

Species
Human

Gene ID
3479

Swiss Prot
P05019

Synonyms
IGF-I; IGFI; MGF

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Background

The protein encoded by this gene is similar to insulin in function and structure and is a member of a family of proteins involved in mediating growth and development. The encoded protein is processed from a precursor, bound by a specific receptor, and secreted. Defects in this gene are a cause of insulin-like growth factor I deficiency. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar processing to generate mature protein. [provided by RefSeq, Sep 2015]

Product Information

Description
IGF1 Knockdown HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.
Allele-1:71bp deletion in exon2
Allele-2:WT
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

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WT    CACCATGTCCTCCT**************TGCGGGGCTGAGCT
Mut   CACCATGTCCTCCT***Deletion***TGCGGGGCTGAGCT
Allele-1:    71bp deletion in exon2

WT    CTGGCGCTGTGCCTGCTCACCTTCACCAGCTCTGCCACGG
Mut   CTGGCGCTGTGCCTGCTCACCTTCACCAGCTCTGCCACGG
Allele-2:    WT
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Genome sequence analysis of PCR products from parental (WT) and IGF1 Knockdown (KD) HeLa cells, using sanger sequencing.