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INSR Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02036

Basic Information

Catalog No.
RM02036

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Gene Information

Gene Symbol
INSR

Species
Human

Gene ID
3643

Swiss Prot
P06213

Synonyms
CD220; HHF5

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Background

This gene encodes a member of the receptor tyrosine kinase family of proteins. The encoded preproprotein is proteolytically processed to generate alpha and beta subunits that form a heterotetrameric receptor. Binding of insulin or other ligands to this receptor activates the insulin signaling pathway, which regulates glucose uptake and release, as well as the synthesis and storage of carbohydrates, lipids and protein. Mutations in this gene underlie the inherited severe insulin resistance syndromes including type A insulin resistance syndrome, Donohue syndrome and Rabson-Mendenhall syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2015]

Product Information

Description
INSR Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:151bp deletion in exon2
Allele-2:151bp deletion in exon2
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 TCCCCAACCTCACG**********TCGACTGGTCCCGT
Mut TCCCCAACCTCACG***Deletion***TCGACTGGTCCCGT
Allele-1: 151bp deletion in exon2

WT TCCCCAACCTCACG**********TCGACTGGTCCCGT
Mut TCCCCAACCTCACG***Deletion***TCGACTGGTCCCGT
Allele-2: 151bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and INSR knockout (KO) 293T cells, using sanger sequencing.

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