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IGF1R Knockdown 293T Cell Lysate, Heterozygous

Catalog No.: RM02561

Basic Information

Catalog No.
RM02561

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockdown

Gene Information

Gene Symbol
IGF1R

Species
Human

Gene ID
3480

Swiss Prot
P08069

Synonyms
CD221; IGFIR; IGFR; JTK13

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Background

This receptor binds insulin-like growth factor with a high affinity. It has tyrosine kinase activity. The insulin-like growth factor I receptor plays a critical role in transformation events. Cleavage of the precursor generates alpha and beta subunits. It is highly overexpressed in most malignant tissues where it functions as an anti-apoptotic agent by enhancing cell survival. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, May 2014]

Product Information

Description
IGF1R Knockdown 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:123bp deletion in exon2
Allele-2:124bp 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
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    GCGGGCCAGGCATC**********ACGGTCATTACCGA
Mut   GCGGGCCAGGCATC***Deletion***ACGGTCATTACCGA
Allele-1:   123bp deletion in exon2

WT    TCTGCGGGCCAGGC**********TCACGGTCATTACC
Mut   TCTGCGGGCCAGGC***Deletion***TCACGGTCATTACC
Allele-2:   124bp deletion in exon2
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Genome sequence analysis of PCR products from parental (WT) and IGF1R Knockdown (KD) 293T cells, using sanger sequencing.