

LRP6 Knockdown 293T Cell Lysate, Heterozygous

Catalog No.: RM02564

Basic Information

Catalog No.

RM02564

Category

Cell Lysate

Parental Cell line

293T

Genotype

Knockdown

Gene Information

Gene Symbol

LRP6

Species

Human

Gene ID

4040

Swiss Prot

O75581

Synonyms

ADCAD2; STHAG7

Contact

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Background

This gene encodes a member of the low density lipoprotein (LDL) receptor gene family. LDL receptors are transmembrane cell surface proteins involved in receptor-mediated endocytosis of lipoprotein and protein ligands. The protein encoded by this gene functions as a receptor or, with Frizzled, a co-receptor for Wnt and thereby transmits the canonical Wnt/beta-catenin signaling cascade. Through its interaction with the Wnt/beta-catenin signaling cascade this gene plays a role in the regulation of cell differentiation, proliferation, and migration and the development of many cancer types. This protein undergoes gamma-secretase dependent RIP- (regulated intramembrane proteolysis) processing but the precise locations of the cleavage sites have not been determined.[provided by RefSeq, Dec 2009]

Product Information

Description

LRP6 Knockdown 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.

Allele-1:201bp deletion in exon2

Allele-2:199bp 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°C

Amount

50μL, 2μg/μL.

Storage

Lysate is stable for 12 months when stored at -20°C. 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

WT AGACGGGACTTGCG*****GCTGGCATGTGATT
Mut AGACGGGACTTGCG***Deletion***GCTGGCATGTGATT
Allele-1: 201bp deletion in exon2

WT CAGACGGGACTTGCG*****TGGGCTGGCATGTG
Mut CAGACGGGACTTGCG***Deletion***TGGGCTGGCATGTG
Allele-2: 199bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and LRP6 Knockdown (KD) 293T cells, using sanger sequencing.