

AXIN2 Knockdown HCT116 Cell Lysate, Heterozygous

Catalog No.: RM02061

Basic Information

Catalog No.

RM02061

Category

Cell Lysate

Parental Cell line

HCT116

Genotype

Knockdown

Gene Information

Gene Symbol

AXIN2

Species

Human

Gene ID

8313

Swiss Prot

Q9Y2T1

Synonyms

AXIL; ODCRCS

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Background

The Axin-related protein, Axin2, presumably plays an important role in the regulation of the stability of beta-catenin in the Wnt signaling pathway, like its rodent homologs, mouse conductin/rat axil. In mouse, conductin organizes a multiprotein complex of APC (adenomatous polyposis of the colon), beta-catenin, glycogen synthase kinase 3-beta, and conductin, which leads to the degradation of beta-catenin. Apparently, the deregulation of beta-catenin is an important event in the genesis of a number of malignancies. The AXIN2 gene has been mapped to 17q23-q24, a region that shows frequent loss of heterozygosity in breast cancer, neuroblastoma, and other tumors. Mutations in this gene have been associated with colorectal cancer with defective mismatch repair. [provided by RefSeq, Jul 2008]

Product Information

Description

AXIN2 Knockdown HCT116 Cell Line is engineered from HCT116 cell line with Gene-Editing technology.

Allele-1:86bp deletion in exon1

Allele-2:87bp deletion in exon1

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 TCCAACACCAGGCG*****TGGGCGATCAAGAC
Mut TCCAACACCAGGCG***Deletion***TGGGCGATCAAGAC
Allele-1: 86bp deletion in exon1
WT TTCCAACACCAGGC*****TGGGCGATCAAGAC
Mut TTCCAACACCAGGC***Deletion***TGGGCGATCAAGAC
Allele-2: 87bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and AXIN2 Knockdown (KD) HCT116 cells, using sanger sequencing.