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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℃

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 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.