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SKP2 Knockout HCT116 cell lysate, Homozygous

Catalog No.: RM50189

Basic Information

Catalog No.
RM50189

Category
Cell Lysate

Parental Cell line
HCT116

Genotype
Knockout

Gene Information

Gene Symbol
SKP2

Species
Human

Gene ID
6502

Swiss Prot
Q13309

Synonyms
p45; FBL1; FLB1; FBXL1; SKP2

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Background

This gene encodes a member of the F-box protein family which is characterized by an approximately 40 amino acid motif, the F-box. The F-box proteins constitute one of the four subunits of ubiquitin protein ligase complex called SCFs (SKP1-cullin-F-box), which function in phosphorylation-dependent ubiquitination. The F-box proteins are divided into 3 classes: Fbws containing WD-40 domains, Fbls containing leucine-rich repeats, and Fbxs containing either different protein-protein interaction modules or no recognizable motifs. The protein encoded by this gene belongs to the Fbls class; in addition to an F-box, this protein contains 10 tandem leucine-rich repeats. This protein is an essential element of the cyclin A-CDK2 S-phase kinase. It specifically recognizes phosphorylated cyclin-dependent kinase inhibitor 1B (CDKN1B, also referred to as p27 or KIP1) predominantly in S phase and interacts with S-phase kinase-associated protein 1 (SKP1 or p19). In addition, this gene is established as a protooncogene causally involved in the pathogenesis of lymphomas. Alternative splicing of this gene generates three transcript variants encoding different isoforms.

Product Information

Description
SKP2 Knockout cell line is engineered from HCT116 cell line with Gene-Editing Technology.
Allele-1:137bp deletion in exon2
Allele-2:137bp 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    CCACCAGCTTCACG**************GAAACGGCTGAAGA
Mut   CCACCAGCTTCACG***Deletion***GAAACGGCTGAAGA
Allele-1:    137bp deletion in exon2

WT    GCCACCAGCTTCAC**************GGAAACGGCTGAAG
Mut   GCCACCAGCTTCAC***Deletion***GGAAACGGCTGAAG
Allele-2:    137bp deletion in exon2
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Genome sequence analysis of PCR products from parental (WT) and SKP2 knockout (KO) HCT116 cells, using sanger sequencing.