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VHL Knockdown 293T Cell Lysate, Heterozygous

Catalog No.: RM02330

Basic Information

Catalog No.
RM02330

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockdown

Gene Information

Gene Symbol
VHL

Species
Human

Gene ID
7428

Swiss Prot
P40337

Synonyms
HRCA1; RCA1; VHL1; pVHL

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Background

Von Hippel-Lindau syndrome (VHL) is a dominantly inherited familial cancer syndrome predisposing to a variety of malignant and benign tumors. A germline mutation of this gene is the basis of familial inheritance of VHL syndrome. The protein encoded by this gene is a component of the protein complex that includes elongin B, elongin C, and cullin-2, and possesses ubiquitin ligase E3 activity. This protein is involved in the ubiquitination and degradation of hypoxia-inducible-factor (HIF), which is a transcription factor that plays a central role in the regulation of gene expression by oxygen. RNA polymerase II subunit POLR2G/RPB7 is also reported to be a target of this protein. Alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq, Jul 2008]

Product Information

Description
VHL Knockdown 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:149bp deletion in exon1
Allele-2:149bp 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

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WT     AGTCCGGCCCGGAA**************CGACGGCGAGCCGC
Mut    AGTCCGGCCCGGAA***Deletion***CGACGGCGAGCCGC
Allele-1: 149bp deletion in exon1

WT     AGTCCGGCCCGGAA**************CGACGGCGAGCCGC
Mut    AGTCCGGCCCGGAA***Deletion***CGACGGCGAGCCGC
Allele-2: 149bp deletion in exon1
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Genome sequence analysis of PCR products from parental (WT) and VHL Knockdown (KD) 293T cells, using sanger sequencing.