

VHL Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM50147

Basic Information

Catalog No.

RM50147

Category

Cell Lysate

Parental Cell line

293T

Genotype

Knockout

Gene Information

Gene Symbol

VHL

Species

Human

Gene ID

7428

Swiss Prot

P40337

Synonyms

RCA1; VHL1; pVHL; HRCA1; VHL

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Background

This gene encodes a component of a ubiquitination complex. The encoded 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. In addition to oxygen-related gene expression, this protein plays a role in many other cellular processes including cilia formation, cytokine signaling, regulation of senescence, and formation of the extracellular matrix. Variants of this gene are associated with von Hippel-Lindau syndrome, pheochromocytoma, erythrocytosis, renal cell carcinoma, and cerebellar hemangioblastoma.

Product Information

Description

VHL Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.

Allele-1:149bp deletion in exon1

Allele-2:28bp 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 AGTCCGGCCCGGAA*****CGACGGCGAGCCGC
Mut AGTCCGGCCCGGAA***Deletion***CGACGGCGAGCCGC
Allele-1: 149bp deletion in exon1

WT CGGA*****GGAA**CCGT*****GACG
Mut CGGA**Deletion***GGAA**CCGT**Deletion***GACG
Allele-2: 28bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and VHL knockout (KO) 293T cells, using sanger sequencing.