

HIF1A Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM01984

Basic Information

Catalog No.

RM01984

Category

Cell Lysate

Parental Cell line

HeLa

Genotype

Knockout

Gene Information

Gene Symbol

HIF1A

Species

Human

Gene ID

3091

Swiss Prot

Q16665

Synonyms

HIF-1-alpha; HIF-1A; HIF-1alpha; HIF1;
HIF1-ALPHA; MOP1; PASD8; bHLHe78

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Background

This gene encodes the alpha subunit of transcription factor hypoxia-inducible factor-1 (HIF-1), which is a heterodimer composed of an alpha and a beta subunit. HIF-1 functions as a master regulator of cellular and systemic homeostatic response to hypoxia by activating transcription of many genes, including those involved in energy metabolism, angiogenesis, apoptosis, and other genes whose protein products increase oxygen delivery or facilitate metabolic adaptation to hypoxia. HIF-1 thus plays an essential role in embryonic vascularization, tumor angiogenesis and pathophysiology of ischemic disease. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq, Jul 2011]

Product Information

Description

HIF1A Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.

Allele-1:1bp insertion in exon2

Allele-2:1bp 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°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 TCAGCTATTGCGT -GTGAGGAACTTCT
Mut TCAGCTATTGCGT**T**GTGAGGAACTTCT
Allele-1: 1bp insertion in exon2

WT CATCAGCTATTGCGTGTGAGGAACTTCTGGAT
Mut CATCAGCTATTGC - **CATCT**GGAACTTCTGGAT
Allele-2: 1bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and HIF1A knockout (KO) HeLa cells, using sanger sequencing.