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HIF1A Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM01984

Basic Information

Catalog No.
RM01984

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockout

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]

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

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℃

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.

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Sequencing data

WT TCAGCTATTTGCGT -GTGAGGAAACTTCT
Mut TCAGCTATTTGCGTTGTGAGGAAACTTCT
Allele-1: 1bp insertion in exon2

WT CATCAGCTATTTGCGTGTGAGGAAACTTCTGGAT
Mut CATCAGCTATTTGC - CATCTGGAAACTTCTGGAT
Allele-2: 1bp deletion in exon2

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