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HMOX1 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM01981

Basic Information

Catalog No.
RM01981

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockout

Gene Information

Gene Symbol
HMOX1

Species
Human

Gene ID
3162

Swiss Prot
P09601

Synonyms
HMOX1D; HO-1; HSP32; bK286B10

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Background

Heme oxygenase, an essential enzyme in heme catabolism, cleaves heme to form biliverdin, which is subsequently converted to bilirubin by biliverdin reductase, and carbon monoxide, a putative neurotransmitter. Heme oxygenase activity is induced by its substrate heme and by various nonheme substances. Heme oxygenase occurs as 2 isozymes, an inducible heme oxygenase-1 and a constitutive heme oxygenase-2. HMOX1 and HMOX2 belong to the heme oxygenase family. [provided by RefSeq, Jul 2008]

Product Information

Description
HMOX1 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.
Allele-1:exon2 was deleted
Allele-2:exon2 was deleted
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

```
WT    AGCATGCCCCAGGA**********ATGTGGCTTGGTGG
Mut   AGCATGCCCCAGGA***Deletion***ATGTGGCTTGGTGG
Allele-1:   109bp deletion in exon2

WT    AGCATGCCCCAGGA**********ATGTGGCTTGGTGG
Mut   AGCATGCCCCAGGA***Deletion***ATGTGGCTTGGTGG
Allele-2:   109bp deletion in exon2
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Genome sequence analysis of PCR products from parental (WT) and HMOX1 knockout (KO) HeLa cells, using sanger sequencing.