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HMGB1 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM01779

Basic Information

Catalog No.
RM01779

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Gene Information

Species
Human

Gene ID
3146

Swiss Prot
P09429

Synonyms
HMG-1; HMG1; HMG3; SBP-1

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Background

This gene encodes a protein that belongs to the High Mobility Group-box superfamily. The encoded non-histone, nuclear DNA-binding protein regulates transcription, and is involved in organization of DNA. This protein plays a role in several cellular processes, including inflammation, cell differentiation and tumor cell migration. Multiple pseudogenes of this gene have been identified. Alternative splicing results in multiple transcript variants that encode the same protein. [provided by RefSeq, Sep 2015]

Product Information

Description
HMGB1 Knockout 293T Cell Line is engineered from 293T 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 GTTGGCATTCTCGT**********GAGTATCTTGCCTG
Mut GTTGGCATTCTCGT***Deletion***GAGTATCTTGCCTG
Allele-1: exon2 was deleted

WT GTTGGCATTCTCGT**********GAGTATCTTGCCTG
Mut GTTGGCATTCTCGT***Deletion***GAGTATCTTGCCTG
Allele-2: exon2 was deleted

Genome sequence analysis of PCR products from parental (WT) and HMGB1 knockout (KO) 293T cells, using sanger sequencing.

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