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HMGB1 Knockout 293T Cell Line, Homozygous

Catalog No.: RM01808

Basic Information

Catalog No.
RM01808

Category
Cell Line

Parental Cell line
293T

Genotype
Knockout

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.

Gene Information

Gene Symbol
HMGB1

Species
Human

Gene ID
3146

Swiss Prot
P09429

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

Product Information

Description
HMGB1 Knockout 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 line and 1 vial knockout cell line

Shipping Conditions
Dry ice

Amount
1~5x10^6 cells/vial.

Storage
Store at -20℃

Protocol
Upon arrival, it should be maintained in DMEM medium with 10%(v/v) fetal bovine serum and 100U penicillin-streptomycin, at 37℃ with 5% CO_2 condition.
1. Thaw the vial in 37℃ water bath ,and shake it to melt as soon as possible.
2. Transfer the cell suspension to a 15mL conical tube with pre-warmed 5mL complete medium and centrifuge 1000rpm for approximately 5 minutes at room temperature.
3. Remove and discard the supernatant.
4. Resuspend the cell pellet with 1mL pre-warmed complete medium and seed in 10cm dish.
5. Add 8-10mL of complete medium.
6. Incubate the culture at 37℃ incubator with 5% CO_2.
7. A subcultivation ratio of 1:2-1:4 is recommended.

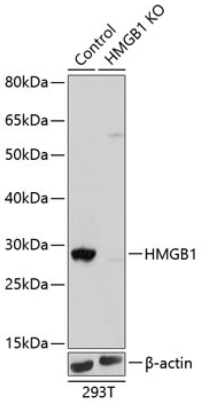
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WB data



Western blot analysis of extracts from parental (Control) and HMGB1 knockout (KO) 293T cells, using HMGB1 antibody at 1:1000 dilution.

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.