

HMGB1 Knockout 293T Cell Line, Homozygous

Catalog No.: RM01808

Basic Information

Catalog No.

RM01808

Category

Cell Line

Parental Cell line

293T

Genotype

Knockout

Gene Information

Gene Symbol

HMGB1

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.

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

1~5x10⁶ cells/vial.

Storage

Stored in liquid nitrogen for a long time less than -130°C. Minimizing freeze-thaw cycles.

Protocol

Upon arrival, it should be maintained in DMEM medium with 10%(v/v) fetal bovine serum and 100U penicillin-streptomycin, at 37°C with 5% CO₂ condition.

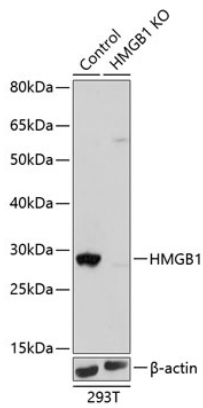
1. Thaw the vial in 37°C water bath, and shake it to melt as soon as possible.
2. Transfer the cell suspension to a 15mL conical tube with pre-warmed 5mL complete medium and centrifuge 1000rpm for approximately 5 minutes at room temperature.
3. Remove and discard the supernatant.
4. Resuspend the cell 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°C incubator with 5% CO₂.
7. A subcultivation ratio of 1:2-1:4 is recommended.

Sequencing data

WT GTTGGCATTCTCGT*****GAGTATCTTGCCCTG
Mut GTTGGCATTCTCGT***Deletion***GAGTATCTTGCCCTG
Allele-1: exon2 was deleted
WT GTTGGCATTCTCGT*****GAGTATCTTGCCCTG
Mut GTTGGCATTCTCGT***Deletion***GAGTATCTTGCCCTG
Allele-2: exon2 was deleted

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

WB data



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