

EPO Knockout 293T Cell Line, Homozygous

Catalog No.: RM02532

Basic Information

Catalog No.

RM02532

Category

Cell Line

Parental Cell line

293T

Genotype

Knockout

Gene Information

Gene Symbol

EPO

Species

Human

Gene ID

2056


Swiss Prot

P01588

Synonyms

EP; MVCD2

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Background

This gene is a member of the EPO/TPO family and encodes a secreted, glycosylated cytokine composed of four alpha helical bundles. The protein is found in the plasma and regulates red cell production by promoting erythroid differentiation and initiating hemoglobin synthesis. This protein also has neuroprotective activity against a variety of potential brain injuries and antiapoptotic functions in several tissue types. [provided by RefSeq, Jul 2008]

Product Information

Description

EPO 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 line and 1 vial knockout cell line

Shipping Conditions

Dry ice

Amount1~5x10⁶ 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 GCTGGGGCAGAGAC*****TCAGGGCTTCAGGGA
Mut GCTGGGGCAGAGAC***Deletion***TCAGGGCTTCAGGGA
Allele-1: exon2 was deleted

WT GCTGGGGCAGAGA *****CTCAGGGCTTCAGG
Mut GCTGGGGCAGAGA***Deletion***CTCAGGGCTTCAGG
Allele-2: exon2 was deleted

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