

PGF Knockout 293T Cell Line, Homozygous

Catalog No.: RM50160

Basic Information

Catalog No.

RM50160

Category

Cell Line

Parental Cell line

293T

Genotype

Knockout

Gene Information

Gene Symbol

PGF

Species

Human

Gene ID

5228

Swiss Prot

P49763

Synonyms

PGFL; PIGF; PLGF; PIGF-2; D12S1900; SHGC-10760

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Background

Enables growth factor activity. Involved in positive regulation of cell population proliferation. Predicted to be located in extracellular region. Predicted to be active in extracellular space. Implicated in several diseases, including brain ischemia; diabetic neuropathy; glioblastoma; myocardial infarction; and pancreatic endocrine carcinoma. Biomarker of several diseases, including artery disease (multiple); autoimmune disease of musculoskeletal system (multiple); epilepsy (multiple); limited scleroderma; and pancreatic endocrine carcinoma.

Product Information

Description

PGF 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 TTTTCTGTCCATAG***Deletion***AGCGTGGGTGCAGG
Mut TTTTCTGTCCATAG***Deletion***AGCGTGGGTGCAGG
Allele-1: exon2 was deleted

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

WT TTTTCTGTCCATAG***Deletion***AGCGTGGGTGCAGG
Mut TTTTCTGTCCATAG***Deletion***AGCGTGGGTGCAGG
Allele-2: exon2 was deleted