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PGF Knockout 293T Cell Line, Homozygous

Catalog No.: RM50160

Basic Information

Catalog No.
RM50160

Category
Cell Line

Parental Cell line
293T

Genotype
Knockout

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.

Gene Information

Gene Symbol
PGF

Species
Human

Gene ID
5228

Swiss Prot
P49763

Synonyms
PGFL; PlGF; PLGF; PlGF-2; D12S1900; SHGC-10760

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
1~5x10^6 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.

Contact

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Sequencing data

```
WT    TTTTCTGTCCATAG***Deletion***AGCGTGGGTGCAGG
Mut   TTTTCTGTCCATAG***Deletion***AGCGTGGGTGCAGG
AIlele-1:    exon2 was deleted

WT    TTTTCTGTCCATAG***Deletion***AGCGTGGGTGCAGG
Mut   TTTTCTGTCCATAG***Deletion***AGCGTGGGTGCAGG
AIlele-2:    exon2 was deleted
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Genome sequence analysis of PCR products from parental (WT) and PGF knockout (KO) 293T cells, using sanger sequencing.