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# GFAP Knockout HeLa Cell Line, Homozygous

**Catalog No.: RM01835**

## Basic Information

**Catalog No.**
RM01835

**Category**
Cell Line

**Parental Cell line**
HeLa

**Genotype**
Knockout

## Background

This gene encodes one of the major intermediate filament proteins of mature astrocytes. It is used as a marker to distinguish astrocytes from other glial cells during development. Mutations in this gene cause Alexander disease, a rare disorder of astrocytes in the central nervous system. Alternative splicing results in multiple transcript variants encoding distinct isoforms.

## Gene Information

**Gene Symbol**
GFAP

**Species**
Human

**Gene ID**
2670

**Swiss Prot**
P14136

**Synonyms**
ALXDRD

## Product Information

**Description**
GFAP Knockout cell line is engineered from HeLa cell line with Gene-Editing Technology.
Allele-1:202bp deletion in exon1
Allele-2:202bp deletion in exon1
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**
1~5x$10^6$ cells/vial.

**Storage**
Stored in liquid nitrogen for a long time less than -130℃. 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℃ 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    CCTCCACTCCCGAC**************TACCAGGCTGAGCT
Mut   CCTCCACTCCCGAC***Deletion***TACCAGGCTGAGCT
Allele-1：202bp deletion in exon1

WT    CCTCCACTCCCGAC**************TACCAGGCTGAGCT
Mut   CCTCCACTCCCGAC***Deletion***TACCAGGCTGAGCT
Allele-2：202bp deletion in exon1
```

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