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EGLN1 Knockout 293T Cell Line, Homozygous

Catalog No.: RM01962

Basic Information

Catalog No.
RM01962

Category
Cell Line

Parental Cell line
293T

Genotype
Knockout

Background

The protein encoded by this gene catalyzes the post-translational formation of 4-hydroxyproline in hypoxia-inducible factor (HIF) alpha proteins. HIF is a transcriptional complex that plays a central role in mammalian oxygen homeostasis. This protein functions as a cellular oxygen sensor, and under normal oxygen concentration, modification by prolyl hydroxylation is a key regulatory event that targets HIF subunits for proteasomal destruction via the von Hippel-Lindau ubiquitylation complex. Mutations in this gene are associated with erythrocytosis familial type 3 (ECYT3). [provided by RefSeq, Nov 2009]

Gene Information

Gene Symbol
EGLN1

Species
Human

Gene ID
54583

Swiss Prot
Q9GZT9

Synonyms
C1orf12; ECYT3; HALAH; HIF-PH2; HIFPH2; HPH-2; HPH2; PHD2; SM20; ZMYND6

Product Information

Description
EGLN1 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:73bp deletion in exon1
Allele-2:74bp 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
1~5x10^6 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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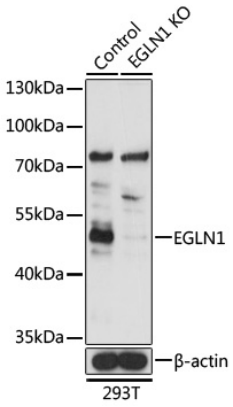
Sequencing data

WT GCCGGGACAACGCC**********GTGCGGCCGCCGGC
Mut GCCGGGACAACGCC***Deletion***GTGCGGCCGCCGGC
Allele-1: 73bp deletion in exon1

WT CGCCGGGACAACGC**********GTGCGGCCGCCGGC
Mut CGCCGGGACAACGC***Deletion***GTGCGGCCGCCGGC
Allele-2: 74bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and EGLN1 knockout (KO) 293T cells, using sanger sequencing.

WB data



Western blot analysis of extracts from parental (Control) and EGLN1 Knockout 293T Cell Line, using EGLN1 antibody at 1:3000 dilution.