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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

## 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

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## 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]

## 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

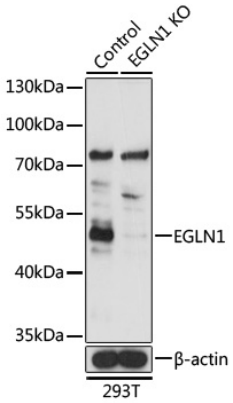
**Shipping Conditions**
Dry ice

**Amount**
1~5x$10^6$ 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.

## WB data




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

## 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.