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EGLN1 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM01800 **1 Publications**

Basic Information

Catalog No.
RM01800

Category
Cell Lysate

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).

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 Lysate and 1 vial knockout cell Lysate

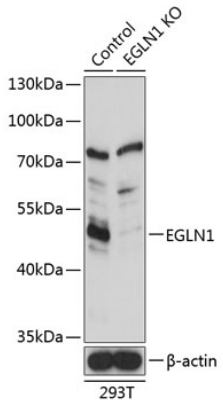
Shipping Conditions
4℃

Amount
50μL, 2μg/μL.

Storage
Store at -20℃

Protocol
To be used as WB control. Lysate is supplied in 1× SDS sample buffer (2% SDS, 60 mM Tris-HCl pH 6.8, 10% Glycerol, 0.02% Bromophenol blue, 60 mM beta-mercaptoethanol). Lysate should be boiled for 3 - 5 minutes before loading onto gel.

WB data



Western blot analysis of extracts from parental (Control) and EGLN1 knockout (KO) 293T cells, using EGLN1 antibody (A14557) 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.