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CD320 Knockout 293T Cell Line, Homozygous

Catalog No.: RM02702

Basic Information

Catalog No.
RM02702

Category
Cell Line

Parental Cell line
293T

Genotype
Knockout

Background

This gene encodes the transcobalamin receptor that is expressed at the cell surface. It mediates the cellular uptake of transcobalamin bound cobalamin (vitamin B12), and is involved in B-cell proliferation and immunoglobulin secretion. Mutations in this gene are associated with methylmalonic aciduria. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

Gene Information

Gene Symbol
CD320

Species
Human

Gene ID
51293

Swiss Prot
Q9NPF0

Synonyms
8D6; 8D6A; TCBLR; TCN2R; TCII-R; sCD320; CD320

Product Information

Description
CD320 Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:64bp deletion in exon1
Allele-2:64bp 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
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

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WT    GGCGGTTGGATGG**********ACTAGGCCTGGAG
Mut   GGCGGTTGGATGG***Deletion***ACTAGGCCTGGAG
Allele-1:   64bp deletion in exon1

WT    GGCGGTTGGATGG**********ACTAGGCCTGGAG
Mut   GGCGGTTGGATGG***Deletion***ACTAGGCCTGGAG
Allele-2:   64bp deletion in exon1
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Genome sequence analysis of PCR products from parental (WT) and CD320 knockout (KO) 293T cells, using sanger sequencing.