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CD63 Knockout 293T Cell Line, Homozygous

Catalog No.: RM02150

Basic Information

Catalog No.
RM02150

Category
Cell Line

Parental Cell line
293T

Genotype
Knockout

Gene Information

Gene Symbol
CD63

Species
Human

Gene ID
967

Swiss Prot
P08962

Synonyms
LAMP-3; ME491; MLA1; OMA81H; TSPAN30

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Background

The protein encoded by this gene is a member of the transmembrane 4 superfamily, also known as the tetraspanin family. Most of these members are cell-surface proteins that are characterized by the presence of four hydrophobic domains. The proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. The encoded protein is a cell surface glycoprotein that is known to complex with integrins. It may function as a blood platelet activation marker. Deficiency of this protein is associated with Hermansky-Pudlak syndrome. Also this gene has been associated with tumor progression. Alternative splicing results in multiple transcript variants encoding different protein isoforms. [provided by RefSeq, Apr 2012]

Product Information

Description
CD63 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:77bp deletion in exon3
Allele-2:77bp deletion in exon3
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.

Sequencing data

WT ATCCCTTCCATGTC**********ATAAGGAGGTAGGG
Mut ATCCCTTCCATGTC***Deletion***ATAAGGAGGTAGGG
Allele-1: 77bp deletion in exon3

WT ATCCCTTCCATGTC**********ATAAGGAGGTAGGG
Mut ATCCCTTCCATGTC***Deletion***ATAAGGAGGTAGGG
Allele-2: 77bp deletion in exon3

Genome sequence analysis of PCR products from parental (WT) and CD63 knockout (KO) 293T cells, using sanger sequencing.