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ACKR3 Knockout 4T1 Cell Line, Homozygous

Catalog No.: RM50128

Basic Information

Catalog No.
RM50128

Category
Cell Line

Parental Cell line
4T1

Genotype
Knockout

Gene Information

Gene Symbol
ACKR3

Species
Mouse

Gene ID
12778

Swiss Prot
P56485

Synonyms
Rdc1; Cxcr7; RDC-1; CXC-R7; CXCR-7; Cmkor1

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Background

Predicted to enable chemokine binding activity; chemokine receptor activity; and scavenger receptor activity. Acts upstream of or within negative regulation of cell population proliferation and positive regulation of ERK1 and ERK2 cascade. Predicted to be located in several cellular components, including cell surface; clathrin-coated pit; and endosome. Predicted to be active in external side of plasma membrane. Is expressed in several structures, including adrenal gland; central nervous system; genitourinary system; heart; and hemolymphoid system. Orthologous to human ACKR3 (atypical chemokine receptor 3).

Product Information

Description
ACKR3 Knockout cell line is engineered from 4T1 cell line with Gene-Editing Technology.
Allele-1:88bp deletion in exon1
Allele-2:1bp insertion and 3bp 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

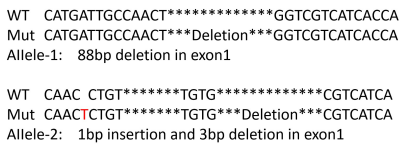
Shipping Conditions
Dry ice

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.

Sequencing data



Genome sequence analysis of PCR products from parental (WT) and ACKR3 knockout (KO) 4T1 cells, using sanger sequencing.