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NT5E Knockdown HCT116 Cell Line, Heterozygous

Catalog No.: RM01870

Basic Information

Catalog No.
RM01870

Category
Cell Line

Parental Cell line
HCT116

Genotype
Knockdown

Gene Information

Gene Symbol
NT5E

Species
Human

Gene ID
4907

Swiss Prot
P21589

Synonyms
CALJA; CD73; E5NT; NT; NT5; NTE; eN; eNT

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Background

The protein encoded by this gene is a plasma membrane protein that catalyzes the conversion of extracellular nucleotides to membrane-permeable nucleosides. The encoded protein is used as a determinant of lymphocyte differentiation. Defects in this gene can lead to the calcification of joints and arteries. Two transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Mar 2011]

Product Information

Description
NT5E Knockdown HCT116 Cell Line is engineered from HCT116 cell line with Gene-Editing Technology.
Allele-1:130bp deletion in exon1
Allele-2:138bp 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.

Sequencing data

WT ACGCCAGCCGCTGC**********TGGCGCACTTCATG
Mut ACGCCAGCCGCTGT***Deletion***TGGCGCACTTCATG
Allele-1: 130bp deletion in exon1

WT GTGCGTCAACGCCA**********TGGCGCACTTCATG
Mut GTGCGTCAACGCCA***Deletion***TGGCGCACTTCATG
Allele-2: 138bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and NT5E Knockdown (KD) HCT116 cells, using sanger sequencing.

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