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ANXA2 Knockdown HeLa Cell Line, Heterozygous

Catalog No.: RM02222

Basic Information

Catalog No.
RM02222

Category
Cell Line

Parental Cell line
HeLa

Genotype
Knockdown

Gene Information

Gene Symbol
ANXA2

Species
Human

Gene ID
302

Swiss Prot
P07355

Synonyms
ANX2; ANX2L4; CAL1H; HEL-S-270; LIP2; LPC2; LPC2D; P36; PAP-IV

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Background

This gene encodes a member of the annexin family. Members of this calcium-dependent phospholipid-binding protein family play a role in the regulation of cellular growth and in signal transduction pathways. This protein functions as an autocrine factor which heightens osteoclast formation and bone resorption. This gene has three pseudogenes located on chromosomes 4, 9 and 10, respectively. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product Information

Description
ANXA2 Knockdown HeLa cell line is engineered from HeLa cell line with Gene-Editing Technology.
Allele-1:WT
Allele-2:exon1 was deleted
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 GTGCTTCAGAGTAA**********GGAAGATGGGGACA
Mut GTGCTTCAGAGTAA***Deletion***GGAAGATGGGGACA
Allele-1: WT

WT GTGCTTCAGAGTAA**********GGAAGATGGGGACA
Mut GTGCTTCAGAGTAA***Deletion***GGAAGATGGGGACA
Allele-2: exon1 was deleted

Genome sequence analysis of PCR products from parental (WT) and ANXA2 Knockdown (KD) HeLa cells, using sanger sequencing.