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VIM Knockdown 293T Cell Line, Heterozygous

Catalog No.: RM01842

Basic Information

Catalog No.
RM01842

Category
Cell Line

Parental Cell line
293T

Genotype
Knockdown

Gene Information

Gene Symbol
VIM

Species
Human

Gene ID
7431

Swiss Prot
P08670

Synonyms
CTRCT30; HEL113

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Background

This gene encodes a member of the intermediate filament family. Intermediate filamentents, along with microtubules and actin microfilaments, make up the cytoskeleton. The protein encoded by this gene is responsible for maintaining cell shape, integrity of the cytoplasm, and stabilizing cytoskeletal interactions. It is also involved in the immune response, and controls the transport of low-density lipoprotein (LDL)-derived cholesterol from a lysosome to the site of esterification. It functions as an organizer of a number of critical proteins involved in attachment, migration, and cell signaling. Mutations in this gene causes a dominant, pulverulent cataract.[provided by RefSeq, Jun 2009]

Product Information

Description
VIM Knockdown 293T cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:1bp insertion and 352bp deletion in exon1
Allele-2:368bp 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.

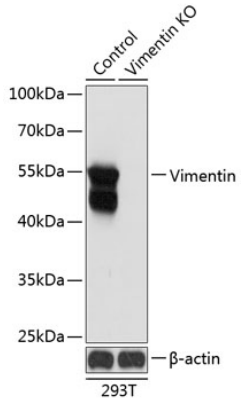
Sequencing data

WT CCGAGCTCCAGCC **********CCTGGGGGACCTCT
Mut CCGAGCTCCAGCCC***Deletion***CCTGGGGGACCTCT
Allele-1: 1bp insertion and 352bp deletion in exon1

WT GCGAGCCGGCCGAG**********ACCTCTACGAGGAG
Mut GCGAGCCGGCCGAG***Deletion***ACCTCTACGAGGAG
Allele-2: 368bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and VIM knockdown (KD) 293T cells, using sanger sequencing.

WB data



Western blot analysis of extracts from parental (Control) and VIM knockdown (KD) 293T cells, using VIM antibody at 1:1000 dilution.