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BAX Knockout 293T Cell Line, Homozygous

Catalog No.: RM01803

Basic Information

Catalog No.
RM01803

Category
Cell Line

Parental Cell line
293T

Genotype
Knockout

Gene Information

Gene Symbol
BAX

Species
Human

Gene ID
581

Swiss Prot
Q07812

Synonyms
BCL2L4

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Background

The protein encoded by this gene belongs to the BCL2 protein family. BCL2 family members form hetero- or homodimers and act as anti- or pro-apoptotic regulators that are involved in a wide variety of cellular activities. This protein forms a heterodimer with BCL2, and functions as an apoptotic activator. This protein is reported to interact with, and increase the opening of, the mitochondrial voltage-dependent anion channel (VDAC), which leads to the loss in membrane potential and the release of cytochrome c. The expression of this gene is regulated by the tumor suppressor P53 and has been shown to be involved in P53-mediated apoptosis. Multiple alternatively spliced transcript variants, which encode different isoforms, have been reported for this gene.

Product Information

Description
BAX Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:49bp deletion in exon3
Allele-2:49bp 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

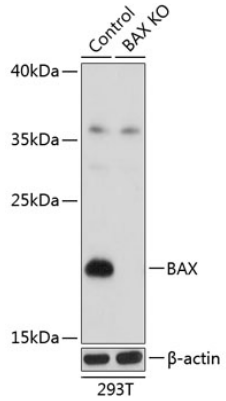
Amount
1~5x10^6 cells/vial.

Storage
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.

WB data



Western blot analysis of extracts from parental (Control) and BAX knockout (KO) 293T cells, using BAX antibody at 1:1000 dilution.

Sequencing data

WT ACCCGGTGCCTCAG**********AACTGGACAGTAAC
Mut ACCCGGTGCCTCAG***Deletion***AACTGGACAGTAAC
Allele-1: 49bp deletion in exon3

WT ACCCGGTGCCTCAG**********AACTGGACAGTAAC
Mut ACCCGGTGCCTCAG***Deletion***AACTGGACAGTAAC
Allele-2: 49bp deletion in exon3

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