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XIAP Knockout HeLa Cell Line, Homozygous

Catalog No.: RM02241

Basic Information

Catalog No.
RM02241

Category
Cell Line

Parental Cell line
HeLa

Genotype
Knockout

Background

This gene encodes a protein that belongs to a family of apoptotic suppressor proteins. Members of this family share a conserved motif termed, baculovirus IAP repeat, which is necessary for their anti-apoptotic function. This protein functions through binding to tumor necrosis factor receptor-associated factors TRAF1 and TRAF2 and inhibits apoptosis induced by menadione, a potent inducer of free radicals, and interleukin 1-beta converting enzyme. This protein also inhibits at least two members of the caspase family of cell-death proteases, caspase-3 and caspase-7. Mutations in this gene are the cause of X-linked lymphoproliferative syndrome. Alternate splicing results in multiple transcript variants. Pseudogenes of this gene are found on chromosomes 2 and 11.[provided by RefSeq, Feb 2011]

Gene Information

Gene Symbol
XIAP

Species
Human

Gene ID
331

Swiss Prot
P98170

Synonyms
API3; BIRC4; IAP-3; ILP1; MIHA; XLP2; hIAP-3; hIAP3

Product Information

Description
XIAP Knockout cell line is engineered from HeLa cell line with Gene-Editing Technology.
Allele-1:149bp deletion in exon1
Allele-2:149bp 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.

Contact

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Sequencing data

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WT     AATAGTGCCACGCA**************ACCCGAGGAACCCT
Mut    AATAGTGCCACGCA***Deletion***ACCCGAGGAACCCT
Allele-1: 149bp deletion in exon1

WT     AATAGTGCCACGCA**************ACCCGAGGAACCCT
Mut    AATAGTGCCACGCA***Deletion***ACCCGAGGAACCCT
Allele-2: 149bp deletion in exon1
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Genome sequence analysis of PCR products from parental (WT) and XIAP knockout (KO) HeLa cells, using sanger sequencing.