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NFKBIA Knockout HeLa Cell Line, Homozygous

Catalog No.: RM01954

Basic Information

Catalog No.
RM01954

Category
Cell Line

Parental Cell line
HeLa

Genotype
Knockout

Gene Information

Gene Symbol
NFKBIA

Species
Human

Gene ID
4792

Swiss Prot
P25963

Synonyms
IKBA; MAD-3; NFKBI

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Background

This gene encodes a member of the NF-kappa-B inhibitor family, which contain multiple ankrin repeat domains. The encoded protein interacts with REL dimers to inhibit NF-kappa-B/REL complexes which are involved in inflammatory responses. The encoded protein moves between the cytoplasm and the nucleus via a nuclear localization signal and CRM1-mediated nuclear export. Mutations in this gene have been found in ectodermal dysplasia anhidrotic with T-cell immunodeficiency autosomal dominant disease. [provided by RefSeq, Aug 2011]

Product Information

Description
NFKBIA Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing Technology.
Allele-1:77bp deletion in exon1
Allele-2:77bp 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

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WT     GACGACCGCCACGA**************AGGAGGTGCCGCGC
Mut    GACGACCGCCACGA***Deletion***AGGAGGTGCCGCGC
Allele-1：77bp deletion in exon1

WT     GACGACCGCCACGA**************AGGAGGTGCCGCGC
Mut    GACGACCGCCACGA***Deletion***AGGAGGTGCCGCGC
Allele-2：77bp deletion in exon1
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Genome sequence analysis of PCR products from parental (WT) and NFKBIA knockout (KO) HeLa cells, using sanger sequencing.