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CXCL8 Knockout HeLa Cell Line, Homozygous

Catalog No.: RM02622

Basic Information

Catalog No.
RM02622

Category
Cell Line

Parental Cell line
HeLa

Genotype
Knockout

Background

The protein encoded by this gene is a member of the CXC chemokine family. This chemokine is one of the major mediators of the inflammatory response. This chemokine is secreted by several cell types. It functions as a chemoattractant, and is also a potent angiogenic factor. This gene is believed to play a role in the pathogenesis of bronchiolitis, a common respiratory tract disease caused by viral infection. This gene and other ten members of the CXC chemokine gene family form a chemokine gene cluster in a region mapped to chromosome 4q. [provided by RefSeq, Jul 2008]

Gene Information

Gene Symbol
CXCL8

Species
Human

Gene ID
3576

Swiss Prot
P10145

Synonyms
GCP-1; GCP1; IL8; LECT; LUCT; LYNAP; MDNCF; MONAP; NAF; NAP-1; NAP1

Product Information

Description
CXCL8 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.
Allele-1:53bp deletion in exon2
Allele-2:70bp deletion in exon2
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.

Contact

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Sequencing data

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WT    GACATACTCCAAAC**********TGCGCCAACACAGA
Mut   GACATACTCCAAAC***Deletion***TGCGCCAACACAGA
Allele-1:    53bp deletion in exon2

WT    AGTGCATAAAGACA**********ACACAGAAATTATG
Mut   AGTGCATAAAGACA***Deletion***ACACAGAAATTATG
Allele-2:    70bp deletion in exon2
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Genome sequence analysis of PCR products from parental (WT) and CXCL8 knockout (KO) HeLa cells, using sanger sequencing.