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MYD88 Knockout HeLa Cell Line, Homozygous

Catalog No.: RM02160

Basic Information

Catalog No.
RM02160

Category
Cell Line

Parental Cell line
HeLa

Genotype
Knockout

Background

This gene encodes a cytosolic adapter protein that plays a central role in the innate and adaptive immune response. This protein functions as an essential signal transducer in the interleukin-1 and Toll-like receptor signaling pathways. These pathways regulate that activation of numerous proinflammatory genes. The encoded protein consists of an N-terminal death domain and a C-terminal Toll-interleukin1 receptor domain. Patients with defects in this gene have an increased susceptibility to pyogenic bacterial infections. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Feb 2010]

Gene Information

Gene Symbol
MYD88

Species
Human

Gene ID
4615

Swiss Prot
Q99836

Synonyms
MYD88D

Product Information

Description
MYD88 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing Technology.
Allele-1:65bp deletion in exon1
Allele-2:85bp 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     CTTGAACGTGCGGA**************CAACTGGAGACACA
Mut    CTTGAACGTGCGGA***Deletion***AAACTGGAGACACA
Allele-1：65bp deletion in exon1

WT     CTTGAACGTGCGGA**************CCCCACTGGCAGGC
Mut    CTTGAACGTGCGGA***Deletion***CCCCACTGGCAGGC
Allele-2：85bp deletion in exon1
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Genome sequence analysis of PCR products from parental (WT) and MYD88 knockout (KO) HeLa cells, using sanger sequencing.