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TLR5 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM50109

Basic Information

Catalog No.
RM50109

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockout

Gene Information

Gene Symbol
TLR5

Species
Human

Gene ID
7100

Swiss Prot
O60602

Synonyms
SLE1; TIL3; SLEB1; MELIOS; TLR5

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Background

This gene encodes a member of the toll-like receptor (TLR) family, which plays a fundamental role in pathogen recognition and activation of innate immune responses. These receptors recognize distinct pathogen-associated molecular patterns that are expressed on infectious agents. The protein encoded by this gene recognizes bacterial flagellin, the principal component of bacterial flagella and a virulence factor. The activation of this receptor mobilizes the nuclear factor NF-kappaB, which in turn activates a host of inflammatory-related target genes. Mutations in this gene have been associated with both resistance and susceptibility to systemic lupus erythematosus, and susceptibility to Legionnaire disease.

Product Information

Description
TLR5 Knockout cell line is engineered from HeLa cell line with Gene-Editing Technology.
Allele-1:353bp deletion in exon1
Allele-2:353bp 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 Lysate and 1 vial knockout cell Lysate

Shipping Conditions
4℃

Amount
50μL, 2μg/μL.

Storage
Store at -20℃

Protocol
To be used as WB control. Lysate is supplied in 1× SDS sample buffer (2% SDS, 60 mM Tris-HCl pH 6.8, 10% Glycerol, 0.02% Bromophenol blue, 60 mM beta-mercaptoethanol). Lysate should be boiled for 3 - 5 minutes before loading onto gel.

Sequencing data

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WT    CCCCCTTGACTATT**********AGCTAATAGCTTGT
Mut   CCCCCTTGACTATT***Deletion***AGCTAATAGCTTGT
Allele-1:    353bp deletion in exon1

WT    CCCCCTTGACTATT**********AGCTAATAGCTTGT
Mut   CCCCCTTGACTATT***Deletion***AGCTAATAGCTTGT
Allele-2:    353bp deletion in exon1
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Genome sequence analysis of PCR products from parental (WT) and TLR5 knockout (KO) HeLa cells, using sanger sequencing.