

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°C

Amount

50μL, 2μg/μL.

Storage

Lysate is stable for 12 months when stored at -20°C. Minimizing freeze-thaw cycles.

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

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

Genome sequence analysis of PCR products from parental (WT) and TLR5 knockout (KO) HeLa cells, using sanger sequencing.

WT CCCCCTTGACTATT*****AGCTAATAGCTTGT
Mut CCCCCTTGACTATT***Deletion***AGCTAATAGCTTGT
Allele-2: 353bp deletion in exon1