

# CSK Knockdown 293T Cell Lysate, Heterozygous

Catalog No.: RM02770

## Basic Information

**Catalog No.**

RM02770

**Category**

Cell Lysate

**Parental Cell line**

293T

**Genotype**

Knockdown

## Gene Information

**Gene Symbol**

CSK

**Species**

Human

**Gene ID**

1445

**Swiss Prot**

P41240

**Synonyms**

CSK; tyrosine-protein kinase CSK

## Contact

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## Background

The protein encoded by this gene is involved in multiple pathways, including the regulation of Src family kinases. It plays an important role in T-cell activation through its association with the protein encoded by the protein tyrosine phosphatase, non-receptor type 22 (PTPN22) gene. This protein also phosphorylates C-terminal tyrosine residues on multiple substrates, including the protein encoded by the SRC proto-oncogene, non-receptor tyrosine kinase gene. Phosphorylation suppresses the kinase activity of the Src family tyrosine kinases. An intronic polymorphism (rs34933034) in this gene has been found to affect B-cell activation and is associated with systemic lupus erythematosus (SLE). Alternative splicing results in multiple transcript variants.

## Product Information

**Description**

CSK Knockdown cell line is engineered from 293T cell line with Gene-Editing Technology.

Allele-1:84bp deletion in exon2

Allele-2:86bp 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 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

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WT CGCCTGGCCATCCG\*\*\*Deletion\*\*\*TGGCCGTACCAAG  
Mut CGCCTGGCCATCCG\*\*\*Deletion\*\*\*TGGCCGTACCAAG  
Allele-1: 84bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and CSK knockdown (KD) 293T cells, using sanger sequencing.

WT CGCCTGGCCATCCG\*\*\*Deletion\*\*\*GCCGTACCAAGGT  
Mut CGCCTGGCCATCCG\*\*\*Deletion\*\*\*GCCGTACCAAGGT  
Allele-2: 86bp deletion in exon2