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# 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℃

**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

```
WT    CGCCTGGCCATCCG***Deletion***TGGCCGTCACCAAG
Mut   CGCCTGGCCATCCG***Deletion***TGGCCGTCACCAAG
Allele-1:   84bp deletion in exon2

WT    CGCCTGGCCATCCG***Deletion***GCCGTCACCAAGGT
Mut   CGCCTGGCCATCCG***Deletion***GCCGTCACCAAGGT
Allele-2:   86bp deletion in exon2
```

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