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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

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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
Lysate is stable for 12 months when stored at -20℃. 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***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
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Genome sequence analysis of PCR products from parental (WT) and CSK knockdown (KD) 293T cells, using sanger sequencing.