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NFKB1 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02248

Basic Information

Catalog No.
RM02248

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Gene Information

Gene Symbol
NFKB1

Species
Human

Gene ID
4790

Swiss Prot
P19838

Synonyms
CVID12; EBP-1; KBF1; NF-kB1; NF-kappa-B; NF-kappaB; NFKB-p105; NFKB-p50; NFkappaB; p105; p50

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Background

This gene encodes a 105 kD protein which can undergo cotranslational processing by the 26S proteasome to produce a 50 kD protein. The 105 kD protein is a Rel protein-specific transcription inhibitor and the 50 kD protein is a DNA binding subunit of the NF-kappa-B (NFKB) protein complex. NFKB is a transcription regulator that is activated by various intra- and extra-cellular stimuli such as cytokines, oxidant-free radicals, ultraviolet irradiation, and bacterial or viral products. Activated NFKB translocates into the nucleus and stimulates the expression of genes involved in a wide variety of biological functions. Inappropriate activation of NFKB has been associated with a number of inflammatory diseases while persistent inhibition of NFKB leads to inappropriate immune cell development or delayed cell growth. Alternative splicing results in multiple transcript variants encoding different isoforms, at least one of which is proteolytically processed. [provided by RefSeq, Feb 2016]

Product Information

Description
NFKB1 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:100bp deletion in exon5
Allele-2:100bp deletion in exon5
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 CTATGTGGGACCAG**********TGCTGGACCCAAGG
Mut CTATGTGGGACCAG***Deletion***TGCTGGACCCAAGG
Allele-1: 100bp deletion in exon5

WT CTATGTGGGACCAG**********TGCTGGACCCAAGG
Mut CTATGTGGGACCAG***Deletion***TGCTGGACCCAAGG
Allele-2: 100bp deletion in exon5

Genome sequence analysis of PCR products from parental (WT) and NFKB1 Knockout (KO) 293T cells, using sanger sequencing.

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