

ITCH Knockdown 293T Cell Lysate, Heterozygous

Catalog No.: RM02057

Basic Information

Catalog No.

RM02057

Category

Cell Lysate

Parental Cell line

293T

Genotype

Knockdown

Gene Information

Gene Symbol

ITCH

Species

Human

Gene ID

83737

Swiss Prot

Q96J02

Synonyms

ADMFD; AIF4; AIP4; NAPP1

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Background

This gene encodes a member of the Nedd4 family of HECT domain E3 ubiquitin ligases. HECT domain E3 ubiquitin ligases transfer ubiquitin from E2 ubiquitin-conjugating enzymes to protein substrates, thus targeting specific proteins for lysosomal degradation. The encoded protein plays a role in multiple cellular processes including erythroid and lymphoid cell differentiation and the regulation of immune responses. Mutations in this gene are a cause of syndromic multisystem autoimmune disease. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Mar 2012]

Product Information

Description

ITCH Knockdown 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.

Allele-1:87bp 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

WT GTTGTGACTTTGCA*****CAATGGTGAAACTA
Mut GTTGTGACTTTGCA***Deletion***CAATGGTGAAACTA
Allele-1: 87bp deletion in exon2

WT GTTGTGACTTTGCA*****CCAATGGTGAAACT
Mut GTTGTGACTTTGCA***Deletion***CCAATGGTGAAACT
Allele-2: 86bp deletion in exon2

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