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# 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

## Contact


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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℃

**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    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.