

## Recombinant Human ITCH 293 Cell Lysate

**Cat. No.** ITCH-5141HCL    **Lot. No.** (See product label)

### SPECIFICATION

#### Product Overview

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>              | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>         | Antigen standard for itchy E3 ubiquitin protein ligase homolog (mouse) (ITCH) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.                                                                                           |
| <b>Components</b>          | This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol). |
| <b>Size</b>                | 0.1 mg                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage Instruction</b> | Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.                                                                                                                                                                                                                                                                   |

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**Applications**

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

**GENE INFORMATION**
**Gene Name**

ITCH itchy E3 ubiquitin protein ligase [ Homo sapiens ]

**Official Symbol**

ITCH

**Synonyms**

ITCH; itchy E3 ubiquitin protein ligase; itchy (mouse homolog) E3 ubiquitin protein ligase , itchy E3 ubiquitin protein ligase homolog (mouse); E3 ubiquitin-protein ligase Itchy homolog; AIP4; NFE2-associated polypeptide 1; atrophin-1 interacting protein 4; itchy E3 ubiquitin protein ligase homolog; dJ468O1.1 (atrophin 1 interacting protein 4 (AIP4)); AIF4; NAPP1; dJ468O1.1;

**Gene ID**

83737

**mRNA Refseq**

NM\_001257137

**Protein Refseq**

NP\_001244066

**MIM**

606409

**UniProt ID**

Q96J02

**Chromosome  
Location**

20q11.22

**Pathway**

Activated NOTCH1 Transmits Signal to the Nucleus, organism-specific biosystem; Adaptive Immune System, organism-specific biosystem; Antigen processing;

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Ubiquitination and Proteasome degradation, organism-specific biosystem; CXCR4-mediated signaling events, organism-specific biosystem; Calcineurin-regulated NFAT-dependent transcription in lymphocytes, organism-specific biosystem; Class I MHC mediated antigen processing &

**Function**

CXCR chemokine receptor binding; acid-amino acid ligase activity; ligase activity; protein binding; ribonucleoprotein complex binding; ubiquitin-protein ligase activity; ubiquitin-protein ligase activity; ubiquitin-protein ligase activity;

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