Recombinant Human ITCH 293 Cell Lysate

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

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	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.
Components	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).
Size	0.1 mg
Storage Instruction	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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