

Rabbit anti-Human, Mouse ITCH Polyclonal Antibody | anti-ITCH antibody

ITCH (Ab-420) Antibody

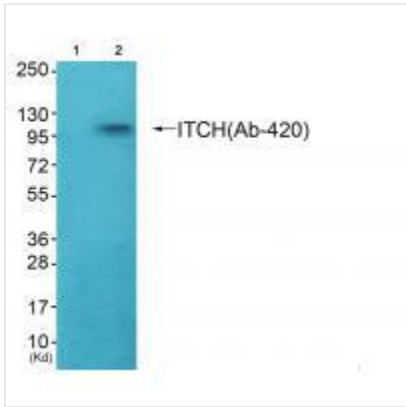
CATALOG # AAA307532	HOST Rabbit	REACTIVITY Human, Mouse	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

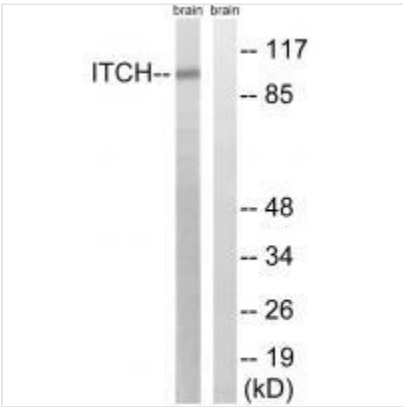
ITCH; Polyclonal Antibody; ITCH (Ab-420) Antibody; AIF4; AIP4; atrophin-1-interacting protein 4; EC 6.3.2.-; Itchy homolog E3 ubiquitin protein ligase; anti-ITCH antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Specificity	The antibody detects endogenous levels of total ITCH protein.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1.0 mg/ml (varies by lot)
Sequence Length	903
Applicable Applications for anti-ITCH antibody	WB (Western Blot)
Immunogen Type	Peptide
Immunogen Description	Synthesized non-phosphopeptide derived from human ITCH around the phosphorylation site of tyrosine 420 (F-I-Y(p)-G-N).
Target Name	ITCH
Preparation and Storage	Store at -20 degree C



WB (Western Blot)
Western blot analysis of extracts from HepG2 cells (Lane 2), using ITCH (Ab-420) antibody. The lane on the left is treated with synthesized peptide.



WB (Western Blot)
Western blot analysis of extracts from mouse brain cells, using ITCH (Ab-420) antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-ITCH antibody	Acts as an E3 ubiquitin-protein ligase which accepts ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and then directly transfers the ubiquitin to targeted substrates. It catalyzes 'Lys-29', 'Lys-48' and 'Lys-63'-linked ubiquitin conjugation. It is involved in the control of inflammatory signaling pathways. Is an essential component of a ubiquitin-editing protein complex, comprising also TNFAIP3, TAX1BP1 and RNF11, that ensures the transient nature of inflammatory signaling pathways. Promotes the association of the complex after TNF stimulation. Once the complex is formed, TNFAIP3 deubiquitinates 'Lys-63' polyubiquitin chains on RIPK1 and catalyzes the formation of 'Lys-48'-polyubiquitin chains. This leads to RIPK1 proteasomal degradation and consequently termination of the TNF- or LPS-mediated activation of NFKB1. Ubiquitinates RIPK2 by 'Lys-63'-linked conjugation and influences NOD2-dependent signal transduction pathways. Regulates the transcriptional activity of several transcription factors, and probably plays an important role in the regulation of immune response. Ubiquitinates NFE2 by 'Lys-63' linkages and is implicated in the control of the development of hematopoietic lineages. Critical regulator of T-helper (TH2) cytokine development through its ability to induce JUNB ubiquitination and degradation By similarity. Ubiquitinates SNX9. Ubiquitinates CXCR4 and HGS/HRS and regulates sorting of CXCR4 to the degradative pathway. It is involved in the negative regulation of MAVS-dependent cellular antiviral responses. Ubiquitinates MAVS through 'Lys-48'-linked conjugation resulting in MAVS proteasomal degradation. Involved in the regulation of apoptosis and reactive oxygen species levels through the ubiquitination and proteasomal degradation of TXNIP. Mediates the antiapoptotic activity of epidermal growth factor through the ubiquitination and proteasomal degradation of p15 BID. Targets DTX1 for lysosomal degradation and controls NOTCH1 degradation, in the absence of ligand, through 'Lys-29'-linked polyubiquitination.Chen X., Genomics 73:238-241(2001).Deloukas P., Nature 414:865-871(2001).Wood J.D., Mol. Cell. Neurosci. 11:149-160(1998).
Product Categories/Family for anti-ITCH antibody	Total protein Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	380420335
NCBI GeneID	83737
NCBI Accession #	NP_001244066.1
NCBI GenBank Nucleotide #	NM_001257137.1
UniProt Accession #	Q96J02; O43584; Q5QP37; Q5TEL0; Q96F66; Q9BY75; Q9H451; Q9H4U5; A6NEW4; B4E234; E1P5P3; F5H217
Molecular Weight	86,498 Da
NCBI Official Full Name	E3 ubiquitin-protein ligase Itchy homolog isoform 1
NCBI Official Synonym Full Names	itchy E3 ubiquitin protein ligase
NCBI Official Symbol	ITCH

NCBI Official Synonym Symbols	AIF4; AIP4; ADMFD; NAPP1
NCBI Protein Information	E3 ubiquitin-protein ligase Itchy homolog
UniProt Protein Name	E3 ubiquitin-protein ligase Itchy homolog
UniProt Gene Name	ITCH
UniProt Synonym Gene Names	Itch; AIP4; NAPP1
UniProt Entry Name	ITCH_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/itch-antibody-western-blot-elisa/307532>