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**Product Name: AIP4 Rabbit Polyclonal Antibody****Catalog #: APRab06706**

For research use only.

**Summary**

<b>Description</b>	Rabbit polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,ELISA
<b>Reactivity</b>	Human,Mouse
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,ELISA 1:20000-1:40000
<b>Molecular Weight</b>	103kDa

**Antigen Information**

<b>Gene Name</b>	ITCH
<b>Alternative Names</b>	ITCH; E3 ubiquitin-protein ligase Itchy homolog; Itch; Atrophin-1-interacting protein 4; AIP4; NFE2-associated polypeptide 1; NAPP1
<b>Gene ID</b>	83737.0
<b>SwissProt ID</b>	Q96J02
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human ITCH. AA range:386-435

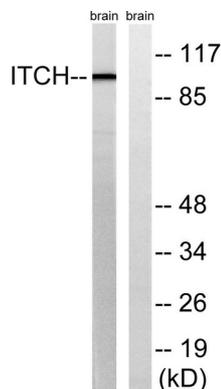
**Background**

itchy E3 ubiquitin protein ligase(ITCH) Homo sapiens 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],function: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. Regulates the transcriptional activity of several transcription factors, and probably plays an important role in the regulation of immune response.,pathway:Protein modification; protein ubiquitination.,PTM:Phosphorylated on tyrosine residues.,similarity:Contains 1 C2 domain.,similarity:Contains 1 HECT (E6AP-type E3 ubiquitin-protein ligase) domain.,similarity:Contains 4 WW domains.,subunit:Interacts via its WW domains with DRPLA, NFE2 and CBLC. Interacts with Epstein-Barr virus LMP2A. Interacts with NOTCH1, OCLN, JUN and JUNB. Interacts with NDFIP1 in vitro (By similarity). Interacts with ARHGEF7.,tissue specificity:Widely expressed.,

## Research Area

Ubiquitin mediated proteolysis;Endocytosis;

## Image Data



Western blot analysis of lysates from mouse brain, using ITCH Antibody. The lane on the right is blocked with the synthesized peptide.