

Anti-ITCH / AIP4 Antibody [JE31-09]

HA722530



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB
Molecular Wt:	Predicted band size: 103 kDa
Clone number:	JE31-09

Description: ITCH is a HECT domain-containing E3 ubiquitin ligase that is ablated in non-agouti-lethal 18H (aka Itchy) mice. Itchy mice develop a severe immunological phenotype after birth that includes hyperplasia of lymphoid and hematopoietic cells, and stomach and lung inflammation. In humans ITCH deficiency causes altered physical growth, craniofacial morphology defects, defective muscle development, and aberrant immune system function. The ITCH gene is located on chromosome 20 in humans. ITCH contains a C2 domain, proline-rich region, WW domains, HECT domain, and multiple amino acids that are phosphorylated and ubiquitinated.

Immunogen: Recombinant protein.

Positive control: SiHa cell lysate, HeLa cell lysate, Ramos cell lysate, NIH/3T3 cell lysate, C6 cell lysate, PC-12 cell lysate.

Subcellular location: Cell membrane, Cytoplasm, Nucleus, Early endosome membrane, Endosome membrane.

Database links: SwissProt: Q96J02 Human | Q8C863 Mouse
Entrez Gene: 311567 Rat

Recommended Dilutions:
WB 1:1,000-1:2,000

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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Images

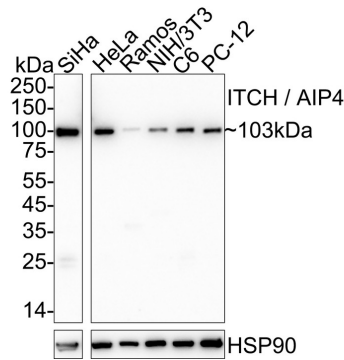


Fig1: Western blot analysis of ITCH / AIP4 on different lysates with Rabbit anti-ITCH / AIP4 antibody (HA722530) at 1/1,000 dilution.

Lane 1: SiHa cell lysate
 Lane 2: HeLa cell lysate
 Lane 3: Ramos cell lysate
 Lane 4: NIH/3T3 cell lysate
 Lane 5: C6 cell lysate
 Lane 6: PC-12 cell lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 103 kDa
 Observed band size: 103 kDa

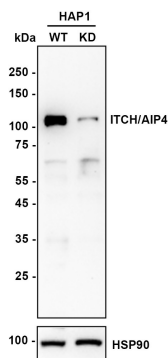
Exposure time: 45 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA722530) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Fig2: Western blot analysis of ITCH / AIP4 on different lysates with Rabbit anti-ITCH / AIP4 antibody (HA722530) at 1/2,000 dilution.

Lane 1: HAP1-parental cell lysate
 Lane 2: HAP1-ITCH / AIP4 KD cell lysate



Lysates/proteins at 10 µg/Lane.

Predicted band size: 102 kDa
 Observed band size: 102 kDa

Exposure time: 90 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA722530) at 1/2,000 dilution was used in K1803 at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

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Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Cevikbas F et al. Physiology and Pathophysiology of Itch. *Physiol Rev.* 2020 Jul
2. Roh YS et al. Itch: Epidemiology, clinical presentation, and diagnostic workup. *J Am Acad Dermatol.* 2022 Jan

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