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Datasheet for ABIN7151041
anti-ITCH antibody (AA 29-303)

2 Images

Overview

| | |
|----------------------|---|
| Quantity: | 100 µL |
| Target: | ITCH |
| Binding Specificity: | AA 29-303 |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This ITCH antibody is un-conjugated |
| Application: | ELISA, Western Blotting (WB), Immunofluorescence (IF) |

Product Details

| | |
|-------------------|--|
| Immunogen: | Recombinant Human E3 ubiquitin-protein ligase Itchy homolog protein (29-303AA) |
| Isotype: | IgG |
| Cross-Reactivity: | Human |
| Purification: | >95%, Protein G purified |

Target Details

| | |
|-------------------|---|
| Target: | ITCH |
| Alternative Name: | ITCH (ITCH Products) |
| Background: | Background: 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. Ubiquitinates MAP3K7 through 'Lys-48'-linked conjugation (By similarity). 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. Ubiquitinates BRAT1 and this ubiquitination is enhanced in the presence of NDFIP1 (PubMed:25631046).

Aliases: ADMFD antibody, AIF4 antibody, AIP4 antibody, Atrophin 1 interacting protein 4 antibody, Atrophin-1-interacting protein 4 antibody, dJ46801.1 antibody, dJ46801.1 (atrophin 1 interacting protein 4 (AIP4)) antibody, dJ46801.1 atrophin 1 interacting protein 4 AIP4 antibody, E3 ubiquitin protein ligase Itchy homolog antibody, E3 ubiquitin-protein ligase Itchy homolog antibody, EC 6.3.2 antibody, Itch antibody, ITCH_HUMAN antibody, Itchy E3 ubiquitin protein ligase antibody, Itchy E3 ubiquitin protein ligase homolog antibody, Itchy E3 ubiquitin protein ligase homolog mouse antibody, Itchy E3 ubiquitin protein ligase, mouse, homolog of antibody, Itchy homolog E3 ubiquitin protein ligase antibody, Itchy mouse homolog E3 ubiquitin protein ligase antibody, NAPP1 antibody, NFE2 associated polypeptide 1 antibody, NFE2-associated polypeptide 1 antibody, Ubiquitin protein ligase ITCH antibody

UniProt:

[Q96J02](#)

Target Details

Pathways: [Activation of Innate immune Response, CXCR4-mediated Signaling Events](#)

Application Details

Application Notes: Recommended dilution: WB:1:1000-1:5000, IF:1:50-1:200,

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Preservative: 0.03 % Proclin 300
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

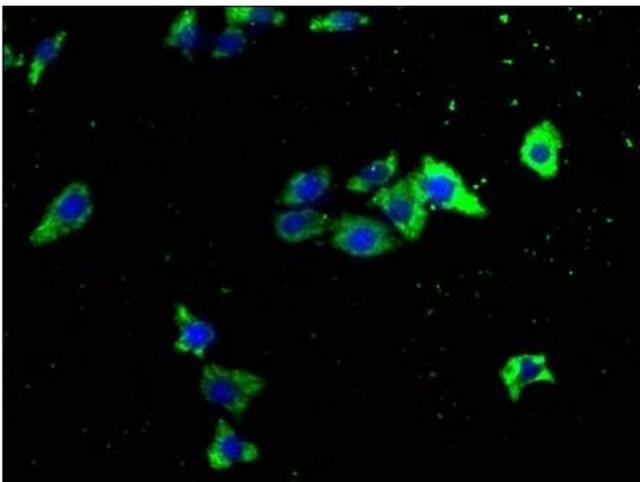
Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C,-80 °C

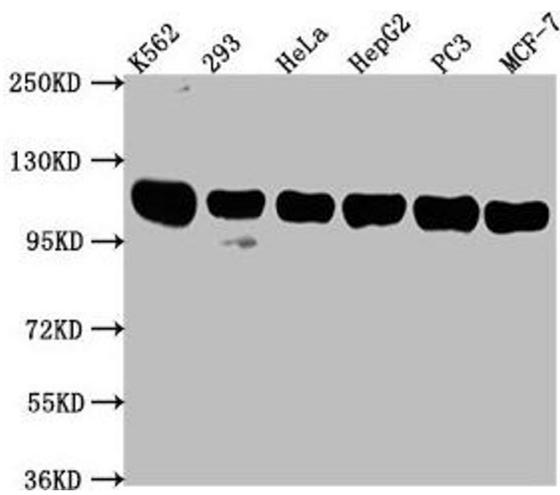
Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Immunofluorescence

Image 1. Immunofluorescence staining of HepG2 cells with ABIN7151041 at 1:133, counter-stained with DAPI. The cells were fixed in 4 % formaldehyde, permeabilized using 0.2 % Triton X-100 and blocked in 10 % normal Goat Serum. The cells were then incubated with the antibody overnight at 4 °C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Western Blotting

Image 2. Western Blot Positive WB detected in: K562 whole cell lysate, 293 whole cell lysate, HeLa whole cell lysate, HepG2 whole cell lysate, PC3 whole cell lysate, MCF-7 whole cell lysate All lanes: ITCH antibody at 1:2000 Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 103, 99, 87 kDa Observed band size: 103 kDa