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# Datasheet for ABIN7127583 Recombinant anti-ITCH antibody

Image



#### Overview

Quantity:	100 µL
Target:	ITCH
Reactivity:	Human
Host:	Rabbit
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This ITCH antibody is un-conjugated
Application:	ELISA, Western Blotting (WB)

## Product Details

Immunogen:	A synthesized peptide derived from human ITCH
Clone:	9C3
lsotype:	lgG
Cross-Reactivity:	Human
Purification:	Affinity-chromatography

## Target Details

Target:	ITCH
Alternative Name:	ITCH (ITCH Products)
Background:	Background: Acts as an E3 ubiquitin-protein ligase which accepts ubiquitin from an E2

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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: E3 ubiquitin-protein ligase Itchy homolog (Itch) (EC 2.3.2.26) (Atrophin-1-interacting
protein 4) (AIP4) (HECT-type E3 ubiquitin transferase Itchy homolog) (NFE2-associated
polypeptide 1) (NAPP1), ITCH
Q96J02
Activation of Innate immune Response, CXCR4-mediated Signaling Events

## Application Details

UniProt:

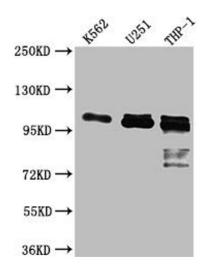
Pathways:

Application Notes:	Recommended dilution: WB:1:500-1:5000,
Restrictions:	For Research Use only

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Format:	Liquid
Buffer:	Rabbit IgG in phosphate buffered saline, pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: 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



### Western Blotting

**Image 1.** Western Blot Positive WB detected in: K562 whole cell lysate, U-251 whole cell lysate, THP-1 whole cell lysate All lanes: ITCH antibody at 1:1000 Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 103, 99, 87 kDa Observed band size: 103 kDa