



AIP4 Monoclonal Antibody

Catalog No	BYmab-03686
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB
Gene Name	ITCH
Protein Name	E3 ubiquitin-protein ligase Itchy homolog
Immunogen	The antiserum was produced against synthesized peptide derived from human ITCH. AA range:386-435
Specificity	AIP4 Monoclonal Antibody detects endogenous levels of AIP4 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	ITCH; E3 ubiquitin-protein ligase Itchy homolog; Itch; Atrophin-1-interacting protein 4; AIP4; NFE2-associated polypeptide 1; NAPP1
Observed Band	103kD
Cell Pathway	Cell membrane ; Peripheral membrane protein ; Cytoplasmic side . Cytoplasm . Nucleus . Early endosome membrane ; Peripheral membrane protein ; Cytoplasmic side . Endosome membrane ; Peripheral membrane protein ; Cytoplasmic side . May be recruited to exosomes by NDFIP1 (PubMed:18819914). Localizes to plasma membrane upon CXCL12 stimulation where it co-localizes with CXCL4 (PubMed:14602072). Localization to early endosomes is increased upon CXCL12 stimulation where it co-localizes with DTX3L and CXCL4 (PubMed:24790097). .
Tissue Specificity	Widely expressed.
Function	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

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	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.,
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],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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