

Rabbit OTUB1 Polyclonal Antibody | anti-OTUB1 antibody

Phospho-OTUB1 (Ser16) Antibody

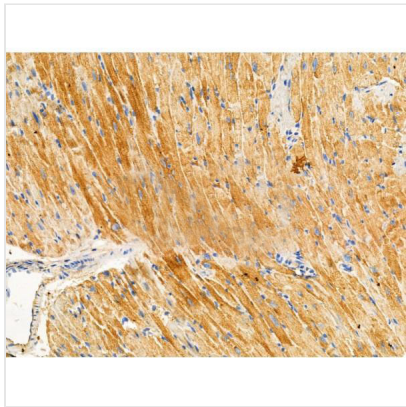
CATALOG # AAA31284	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, ELISA
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PRODUCT SYNONYMS

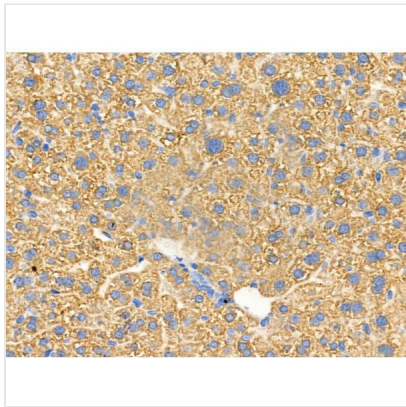
OTUB1; Polyclonal Antibody; Phospho-OTUB1 (Ser16) Antibody; Deubiquitinating enzyme OTUB1; hOTU1; HSPC263; OTB1; OTU domain containing ubiquitin aldehyde binding protein 1; OTU domain; ubiquitin aldehyde binding 1; OTU domain-containing Ubal-binding protein 1; OTU domain-containing ubiquitin aldehyde-binding protein 1; OTU-domain Ubal-binding 1; OTU1; Otub1; OTUB1_HUMAN; Otubain 1; Otubain-1; Ubiquitin specific processing protease OTUB1; Ubiquitin thioesterase OTUB1; ubiquitin-specific protease otubain 1; Ubiquitin-specific-processing protease OTUB1; anti-OTUB1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-OTUB1 (Ser16) Antibody detects endogenous levels of OTUB1 only when phosphorylated at Ser16. Tissue Specificity: Isoform 1 is ubiquitous. Isoform 2 is expressed only in lymphoid tissues such as tonsils, lymph nodes and spleen, as well as peripheral blood mononuclear cells.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-OTUB1 antibody	IHC (Immunohistochemistry), ELISA (Peptide ELISA)
Application Notes	IHC: 1:50-1:200 Peptide ELISA: 1:20,000-1:40,000
Immunogen	A synthesized peptide derived from human OTUB1 around the phosphorylation site of Ser16.
Conjugation	Unconjugated
Fragment	Fab fragment
Subunit Structure	Isoform 1 and isoform 2 interact with RNF128. Isoform 1 forms a ternary complex with RNF128 and USP8. Isoform 1 interacts with the C-terminal UCH catalytic domain of USP8. Isoform 2 does not associate with USP8. Interacts with FUS, ESR1 and RACK1. Interacts with UBE2N/UBC13.
Similarity	In addition to ubiquitin-binding at the Cys-91 active site, a proximal ubiquitin-binding site is also present at Cys-23. Occupancy of the active site is needed to enable tight binding to the second site. Distinct binding sites for the ubiquitins may allow to discriminate among different isopeptide linkages (i.e. 'Lys-48', 'Lys-63'-linked polyubiquitin) in polyubiquitin substrates and achieve linkage-specific deubiquitination. Belongs to the peptidase C65 family.
Subcellular Location	Cytoplasm.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
At 1/100 staining Mouse heart tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



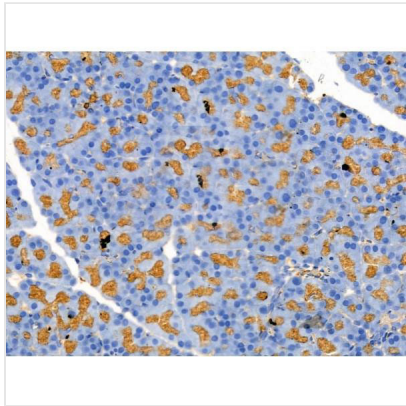
IHC (Immunohistochemistry)
At 1/100 staining Mouse liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



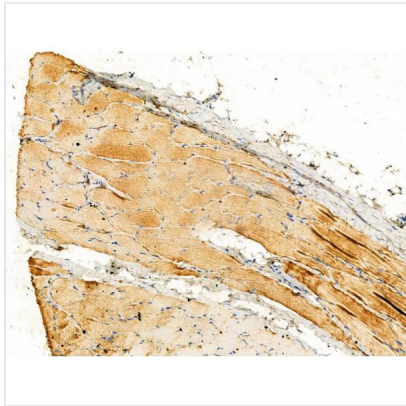
IHC (Immunohistochemistry)
At 1/100 staining Rat heart tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
At 1/100 staining Rat liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
Staining Rat pancreatic tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
At 1/100 staining Rat skin tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-OTUB1 antibody	Hydrolase that can specifically remove 'Lys-48'-linked conjugated ubiquitin from proteins and plays an important regulatory role at the level of protein turnover by preventing degradation. Regulator of T-cell anergy, a phenomenon that occurs when T-cells are rendered unresponsive to antigen rechallenger and no longer respond to their cognate antigen. Acts via its interaction with RNF128/GRAIL, a crucial inductor of CD4 T-cell anergy. Isoform 1 destabilizes RNF128, leading to prevent anergy. In contrast, isoform 2 stabilizes RNF128 and promotes anergy. Surprisingly, it regulates RNF128-mediated ubiquitination, but does not deubiquitinate polyubiquitinated RNF128. Deubiquitinates estrogen receptor alpha (ESR1). Mediates deubiquitination of 'Lys-48'-linked polyubiquitin chains, but not 'Lys-63'-linked polyubiquitin chains. Not able to cleave di-ubiquitin. Also capable of removing NEDD8 from NEDD8 conjugates, but with a much lower preference compared to 'Lys-48'-linked ubiquitin. Plays a key non-catalytic role in DNA repair regulation by inhibiting activity of RNF168, an E3 ubiquitin-protein ligase that promotes accumulation of 'Lys-63'-linked histone H2A and H2AX at DNA damage sites. Inhibits RNF168 independently of ubiquitin thioesterase activity by binding and inhibiting UBE2N/UBC13, the E2 partner of RNF168, thereby limiting spreading of 'Lys-63'-linked histone H2A and H2AX marks. Inhibition occurs by binding to free ubiquitin: free ubiquitin acts as an allosteric regulator that increases affinity for UBE2N/UBC13 and disrupts interaction with UBE2V1. The OTUB1-UBE2N/UBC13-free ubiquitin complex adopts a configuration that mimics a cleaved 'Lys48'-linked di-ubiquitin chain.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	109148508
NCBI GeneID	55611
NCBI Accession #	NP_060140.2
NCBI GenBank Nucleotide #	NM_017670.2
UniProt Accession #	Q96FW1; Q32Q78; Q96I13; Q9NXQ4; Q9P0B8
Molecular Weight	35,285 Da
NCBI Official Full Name	ubiquitin thioesterase OTUB1
NCBI Official Synonym Full Names	OTU deubiquitinase, ubiquitin aldehyde binding 1
NCBI Official Symbol	OTUB1
NCBI Official Synonym Symbols	OTB1; OTU1; HSPC263
NCBI Protein Information	ubiquitin thioesterase OTUB1; OTU domain, ubiquitin aldehyde binding 1; OTU domain-containing ubiquitin aldehyde-binding protein 1; OTU-domain Ubal-binding 1; deubiquitinating enzyme OTUB1; otubain-1; ubiquitin-specific protease otubain 1; ubiquitin-speci
UniProt Protein Name	Ubiquitin thioesterase OTUB1
UniProt Gene Name	OTUB1
UniProt Synonym Gene Names	OTB1; OTU1; hOTU1
UniProt Entry Name	OTUB1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/otub1-antibody-immunohistochemistry-peptide-elisa-elisa/31284>