

Rabbit OTUB1 Polyclonal Antibody | anti-OTUB1 antibody

OTUB1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA328214	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

OTUB1; Polyclonal Antibody; OTUB1 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

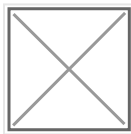
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	OTUB1 antibody detects endogenous levels of total OTUB1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	271
Applicable Applications for anti-OTUB1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human OTUB1
Subcellular Location	Cytoplasm.
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.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Dog, Chicken
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Dog (100%), Chicken (92%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA328214 at 1/100 staining Human lung 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 antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis OTUB1 using HuvEc whole cell lysates



WB (Western Blot)
Western blot analysis of extracts from mouse spleen and rat heart, using OTUB1 Antibody.



IF (Immunofluorescence)
AAA328214 staining Hela cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-OTUB1 antibody

Function: 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 rechallenge and no longer respond to their cognate antigen. Acts via its interaction with RNF128/GRAIL, a crucial inducer 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.

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.

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; Q96II3; Q9NXQ4; Q9P0B8
Molecular Weight	Observed: 31 kDa Predicted: 32 kDa
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
UniProt Protein Name	Ubiquitin thioesterase OTUB1
UniProt Gene Name	OTUB1
UniProt Synonym Gene Names	OTB1; OTU1; hOTU1

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/otub1-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/328214>