

OTUD1 Rabbit pAb

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Catalog # AP56744

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q5V17
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	51063
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human OTUD1
Epitope Specificity	141-240/481
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Deubiquitinating enzymes (DUBs; see MIM 603478) are proteases that specifically cleave ubiquitin (MIM 191339) linkages, negating the action of ubiquitin ligases. DUBA7 belongs to a DUB subfamily characterized by an ovarian tumor (OTU) domain.[supplied by OMIM, May 2008]

Additional Information

Gene ID	220213
Other Names	OTU domain-containing protein 1, 3.4.19.12, DUBA-7, OTUD1 {ECO:0000303 PubMed:23827681, ECO:0000312 HGNC:HGNC:27346}
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

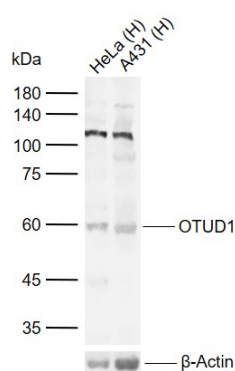
Name	OTUD1 {ECO:0000303 PubMed:23827681, ECO:0000312 HGNC:HGNC:27346}
Function	Deubiquitinating enzyme that specifically hydrolyzes 'Lys- 63'-linked polyubiquitin to monoubiquitin (PubMed: 23827681). Required for the stability

and translation of a subset mRNAs with a high abundance of rare codons by mediating deubiquitination of 40S ribosomal protein RPS10/eS10, thereby antagonizing ZNF598-mediated 40S ubiquitination (PubMed:[36445135](#)). The abundance of rare codons in mRNAs can limit the translation rate and can lead to ribosome collisions that trigger activation of ribosome quality control (RQC) pathway by ZNF598 (PubMed:[36445135](#)). OTUD1-mediated deubiquitination prevents activation of the RQC and subsequent dissociation of ribosomes and stimulates formation of polysomes and translation (PubMed:[36445135](#)).

Background

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Images



Sample:

Lane 1: Human HeLa cell lysates

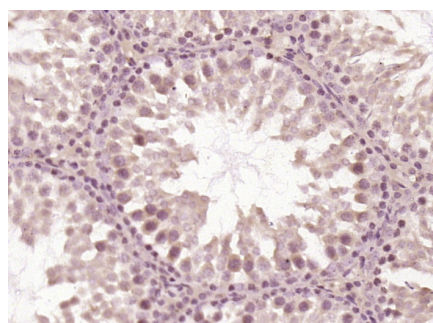
Lane 2: Human A431 cell lysates

Primary: Anti-OTUD1 (AP56744) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 51 kDa

Observed band size: 60 kDa



Paraformaldehyde-fixed, paraffin embedded (rat testis tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (OTUD1) Polyclonal Antibody, Unconjugated (AP56744) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.