

OTUD1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP56744

Specification

OTUD1 Polyclonal Antibody - Product Information

Application WB, IHC-P, IHC-F, IF, ICC

Primary Accession
Reactivity
Rat, Bovine
Host
Clonality
Calculated MW
Physical State

O5VV17
Rat, Bovine
Rabbit
Polyclonal
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.

SIMILARITY Contains 1 OTU domain.

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]

OTUD1 Polyclonal Antibody - Additional Information

Gene ID 220213

Other Names

OTU domain-containing protein 1, 3.4.19.12, DUBA-7, OTUD1, DUBA7, OTDC1

Dilution

WB~~1:1000/span>
f \><span class</pre>

="dilution_IHC-P">IHC-P~~N/A<br \><span class

="dilution IHC-F">IHC-F~~N/A<br \><span class

="dilution IF">IF~~1:50~200<br \>ICC~~N/A

Storage

Store at -20 $^{\circ}$ 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 $^{\circ}$ C.



OTUD1 Polyclonal Antibody - Protein Information

Name OTUD1 {ECO:0000303|PubMed:23827681, ECO:0000312|HGNC:HGNC:27346}

Function

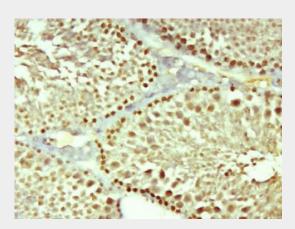
Deubiquitinating enzyme that specifically hydrolyzes 'Lys- 63'-linked polyubiquitin to monoubiquitin (PubMed:23827681). Required for the stability and translation of a subset mRNAs with a high abundance of rare codons by mediating deubiquitination of 40S ribosomal protein RPS10/eS10, thereby antagonizing 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).

OTUD1 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

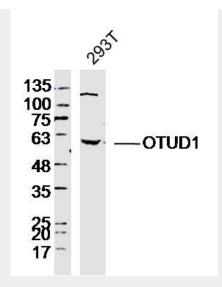
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

OTUD1 Polyclonal Antibody - Images



Paraformaldehyde-fixed, paraffin embedded (Mouse testis); 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 (bs-17563R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

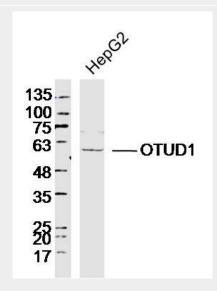




Sample: 293T (Human)Cell Lysate at 40 ug Primary: Anti-OTUD1(bs-17563R)at 1/300 dilution

Secondary: IRDye800CW Goat Anti-RabbitlgG at 1/20000 dilution

Predicted band size: 51kD Observed band size: 60kD

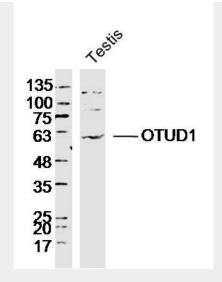


Sample: HepG2 (Human) Cell Lysate at 40 ug Primary: Anti-OTUD1(bs-17563R)at 1/300 dilution

Secondary: IRDye800CW Goat Anti-RabbitlgG at 1/20000 dilution

Predicted band size: 51kD Observed band size: 60kD



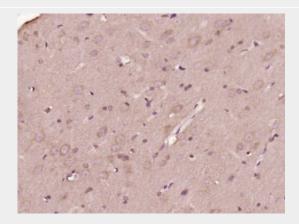


Sample: Testis (Mouse)Lysate at 40 ug

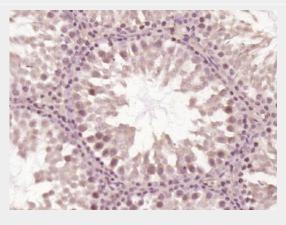
Primary: Anti-OTUD1(bs-17563R)at 1/300 dilution

Secondary: IRDye800CW Goat Anti-RabbitIgG at 1/20000 dilution

Predicted band size: 51kD Observed band size: 60kD



Paraformaldehyde-fixed, paraffin embedded (Rat brain); 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 (bs-17563R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.







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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 (bs-17563R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.