

# OTUD3 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP11031C

## Product Information

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<b>Application</b>	IHC-P-Leica, WB, E
<b>Primary Accession</b>	<a href="#">Q5T2D3</a>
<b>Other Accession</b>	<a href="#">NP_056022.1</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB28198
<b>Calculated MW</b>	45124
<b>Antigen Region</b>	192-220

## Additional Information

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<b>Gene ID</b>	23252
<b>Other Names</b>	OTU domain-containing protein 3, OTUD3, KIAA0459
<b>Target/Specificity</b>	This OTUD3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 192-220 amino acids from the Central region of human OTUD3.
<b>Dilution</b>	IHC-P-Leica~~1:500 WB~~1:2000 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	OTUD3 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	OTUD3 ( <a href="#">HGNC:29038</a> )
<b>Function</b>	Deubiquitinating enzyme that hydrolyzes 'Lys-6'- and 'Lys- 11'-linked polyubiquitin. Also hydrolyzes heterotypic (mixed and branched) and homotypic chains (PubMed: <a href="#">23827681</a> , PubMed: <a href="#">32011234</a> ,

PubMed:[35675826](#)). Important regulator of energy metabolism (PubMed:[35675826](#)). Glucose and fatty acids trigger its nuclear translocation by CBP-dependent acetylation (PubMed:[35675826](#)). In the nucleus, deubiquitinates and stabilizes the nuclear receptor PPARD regulating the expression of various genes involved in glucose and lipid metabolism and oxidative phosphorylation (PubMed:[35675826](#)). Also acts as a negative regulator of the ribosome quality control (RQC) by mediating deubiquitination of 40S ribosomal proteins RPS10/eS10 and RPS20/uS10, thereby antagonizing ZNF598-mediated 40S ubiquitination (PubMed:[32011234](#)).

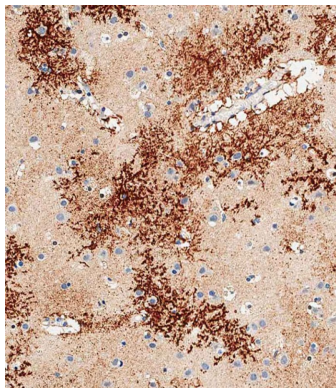
#### Cellular Location

Cytoplasm. Nucleus. Note=Glucose or fatty acid promote nuclear translocation upon acetylation.

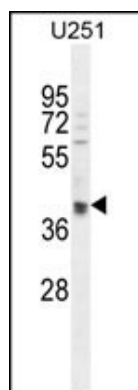
## References

McGovern, D.P., et al. Nat. Genet. 42(4):332-337(2010)  
Franke, A., et al. Nat. Genet. 42(4):292-294(2010)  
Barrett, J.C., et al. Nat. Genet. 41(12):1330-1334(2009)  
Silverberg, M.S., et al. Nat. Genet. 41(2):216-220(2009)  
Venter, J.C., et al. Science 291(5507):1304-1351(2001)

## Images



Immunohistochemical analysis of paraffin-embedded human brain tissue using AP11031C performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



OTUD3 Antibody (Center) (Cat. #AP11031c) western blot analysis in U251 cell line lysates (35ug/lane). This demonstrates the OTUD3 antibody detected the OTUD3 protein (arrow).

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