10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

OTU7B Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14281b

Product Information

Application	WB, IHC-P, E
Primary Accession	Q6GQQ9
Other Accession	B2RUR8, NP_064590.2
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB34874
Calculated MW	92526
Antigen Region	757-784

Additional Information

Gene ID	56957
Other Names	OTU domain-containing protein 7B, Cellular zinc finger anti-NF-kappa-B protein, Zinc finger A20 domain-containing protein 1, Zinc finger protein Cezanne, OTUD7B, ZA20D1
Target/Specificity	This OTU7B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 757-784 amino acids from the C-terminal region of human OTU7B.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	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.
Storage	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.
Precautions	OTU7B Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	OTUD7B
Synonyms	ZA20D1

Function	Negative regulator of the non-canonical NF-kappa-B pathway that acts by mediating deubiquitination of TRAF3, an inhibitor of the NF-kappa-B pathway, thereby acting as a negative regulator of B-cell responses (PubMed:18178551). In response to non-canonical NF-kappa-B stimuli, deubiquitinates 'Lys-48'-linked polyubiquitin chains of TRAF3, preventing TRAF3 proteolysis and over-activation of non-canonical NF- kappa-B (By similarity). Negatively regulates mucosal immunity against infections (By similarity). Deubiquitinates ZAP70, and thereby regulates T cell receptor (TCR) signaling that leads to the activation of NF-kappa-B (PubMed:26903241). Plays a role in T cell homeostasis and is required for normal T cell responses, including production of IFNG and IL2 (By similarity). Mediates deubiquitination of EGFR (PubMed:22179831). Has deubiquitinating activity toward 'Lys-11', 'Lys- 48' and 'Lys-63'-linked polyubiquitin chains (PubMed:11463333, PubMed:20622874, PubMed:23827681, PubMed:27732584). Has a much higher catalytic rate with 'Lys-11'-linked polyubiquitin chains (in vitro); however the physiological significance of these data are unsure (PubMed:27732584). Hydrolyzes both linear and branched forms of polyubiquitin (PubMed:12682062). Acts as a regulator of mTORC1 and mTORC2 assembly by mediating 'Lys-63'-linked deubiquitination of MLST8, thereby promoting assembly of the mTORC2 complex, while inhibiting formation of the mTORC1 complex (PubMed:28489822).
Cellular Location	Cytoplasm. Nucleus Note=Shuttles be cytoplasm and the nucleus in a XPO1/CRM1-dependent manner.
Tissue Location	Widely expressed. Abundant in kidney, heart and fetal liver. Expressed differentially among B-cells at distinct developmental stages. Higher expression seen in primary immature B- cells as compared to the mature cells.

Background

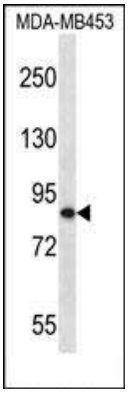
OTU7B has deubiquitinating activity that is directed towards 'Lys-48' or 'Lys-63'-linked polyubiquitin chains. Hydrolyzes both linear and branched forms of polyubiquitin. Negative regulator of nuclear factor NF-kappa-B.

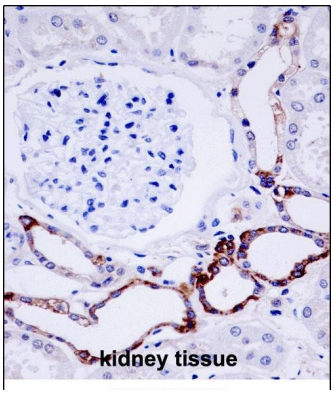
References

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Enesa, K., et al. J. Biol. Chem. 283(27):18582-18590(2008)
Bohgaki, M., et al. Biochim. Biophys. Acta 1783(5):826-837(2008)
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Images

OTU7B Antibody (C-term) (Cat. #AP14281b) western blot analysis in MDA-MB453 cell line lysates (35ug/lane).This demonstrates the OTU7B antibody detected the OTU7B protein (arrow).





OTU7B Antibody (C-term) (AP14281b)immunohistochemistry analysis in formalin fixed and paraffin embedded human kidney tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of OTU7B Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

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