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OTUD4 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5997a

Product Information

Application	WB, IHC-P, E
Primary Accession	Q01804
Other Accession	NP_001096123.1, NP_059963.1
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB27531
Calculated MW	124045
Antigen Region	403-430

Additional Information

Gene ID	54726
Other Names	OTU domain-containing protein 4, HIV-1-induced protein HIN-1, OTUD4, HIN1, KIAA1046
Target/Specificity	This OTUD4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 403-430 amino acids from the N-terminal region of human OTUD4.
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	OTUD4 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

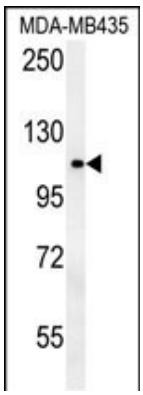
Protein Information

Name	OTUD4 (HGNC:24949)
Function	Deubiquitinase which hydrolyzes the isopeptide bond between the ubiquitin C-terminus and the lysine epsilon-amino group of the target protein

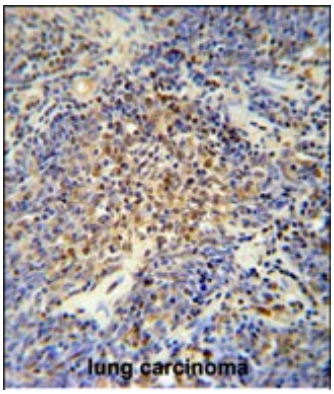
(PubMed:23827681, PubMed:25944111, PubMed:29395066). May negatively regulate inflammatory and pathogen recognition signaling in innate immune response. Upon phosphorylation at Ser-202 and Ser-204 residues, via IL-1 receptor and Toll-like receptor signaling pathway, specifically deubiquitinates 'Lys-63'-polyubiquitinated MYD88 adapter protein triggering down-regulation of NF-kappa-B-dependent transcription of inflammatory mediators (PubMed:29395066). Independently of the catalytic activity, acts as a scaffold for alternative deubiquitinases to assemble specific deubiquitinase- substrate complexes. Associates with USP7 and USP9X deubiquitinases to stabilize alkylation repair enzyme ALKBH3, thereby promoting the repair of alkylated DNA lesions (PubMed:25944111).

Cellular Location Cytoplasm. Nucleus. Note=Primarily cytoplasmic

Images



OTUD4 Antibody (N-term) (Cat. #AP5997a) western blot analysis in MDA-MB435 cell line lysates (35ug/lane).This demonstrates the OTUD4 antibody detected the OTUD4 protein (arrow).



OTUD4 antibody (N-term) (Cat. #AP5997a) immunohistochemistry analysis in formalin fixed and paraffin embedded human lung carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the OTUD4 antibody (N-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'.