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

OTUD4 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO2224a

Product Information

Application	WB, FC, E
Primary Accession	Q01804
Reactivity	Human, Rat
Host	Mouse
Clonality	Monoclonal
Clone Names	3B12G11
Isotype	IgG1
Calculated MW	124045
Description	Alternatively spliced transcript variants have been found for this gene. The smaller protein isoform encoded by the shorter transcript variant is found only in HIV-1 infected cells.
Immunogen	Purified recombinant fragment of human OTUD4 (AA: 815-1049) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide

Additional Information

Gene ID	54726
Other Names	OTU domain-containing protein 4, 3.4.19.12, HIV-1-induced protein HIN-1, OTUD4, HIN1, KIAA1046
Dilution	WB~~1/500 - 1/2000 FC~~1/200 - 1/400 E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	OTUD4 Antibody 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

References

1.EMBO J. 2015 Jun 12;34(12):1687-703.

Images