

OTUD4 Antibody
Catalog # ASC10867**Specification**

OTUD4 Antibody - Product Information

Application	IF
Primary Accession	Q01804
Other Accession	NP_001096123 , 54726
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	Predicted: 115, 123 kDa

Application Notes

Observed: 110 kDa KDa
OTUD4 antibody can be used for detection of OTUD4 by Western blot at 0.25 - 0.5 µg/mL. Antibody can also be used for immunocytochemistry starting at 2.5 µg/mL. For immunofluorescence start at 20 µg/mL.

OTUD4 Antibody - Additional InformationGene ID **54726****Target/Specificity**

OTUD4 antibody was raised against an 18 amino acid synthetic peptide near the carboxy terminus of human OTUD4.

The immunogen is located within the last 50 amino acids of OTUD4.

Reconstitution & Storage

OTUD4 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Precautions

OTUD4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

OTUD4 Antibody - Protein InformationName 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

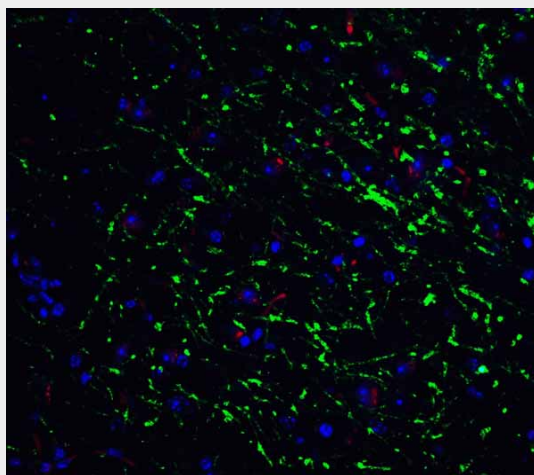
Cytoplasm. Nucleus. Note=Primarily cytoplasmic

OTUD4 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 Cytometry](#)
- [Cell Culture](#)

OTUD4 Antibody - Images



Immunofluorescence of GABARAP in mouse brain tissue with GABARAP Antibody at 20 µg/mL.

OTUD4 Antibody - Background

OTUD4 Antibody: OTUD4, also known as HIV-1 induced protein HIN-1, is a member of the OTU (ovarian tumor) domain containing cysteine protease superfamily, in which the OUT domain generally confers deubiquitinase activity. At least three isoforms of OTUD4 are known to exist, and the smallest of these isoforms are only expressed in HIV-1-infected cells (provided by RefSeq).

OTUD4 Antibody - References

Borodovsky A, Ovaa H, Kolli N, et al. Chemistry-based functional genomics reveals novel members of the deubiquitinating enzyme family. Chem. Biol. 2002; 10:1149-59.