

OTUD5 Antibody

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H M R	Endogenous	75	Rabbit	#Q96G74	55593

Product Usage Information**Application**

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:100

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

OTUD5 Antibody recognizes endogenous levels of total OTUD5 protein.

Species predicted to react based on 100% sequence homology

Bovine, Dog, Pig

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human OTUD5 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Protein ubiquitination and deubiquitination are reversible processes catalyzed by ubiquitinating enzymes and deubiquitinating enzymes, respectively (1,2). Deubiquitinating enzymes (DUBs) are categorized into five subfamilies based on catalytic domain structure: USP, OTU, MJD, UCH, and JAMM/MPN. OTUD5, also known as DUBA, belongs to the OTU family of DUBs. Phosphorylation of OTUD5 at Ser177 is required to activate its DUB activity (3). Research studies have shown that OTUD5 plays a pivotal role in negatively regulating innate immune responses through its ability to bind and deubiquitinate K63-linked TRAF3, thereby suppressing production of IFN-I by macrophages (4). There is also evidence that OTUD5 participates in the adaptive immune response by negatively regulating the production of pro-inflammatory IL-17 by Th17 cells (5).

Background References

1. Nijman, S.M. et al. (2005) *Cell* 123, 773-86.
2. Nalepa, G. et al. (2006) *Nat Rev Drug Discov* 5, 596-613.
3. Huang, O.W. et al. (2012) *Nat Struct Mol Biol* 19, 171-5.
4. Kayagaki, N. et al. (2007) *Science* 318, 1628-32.
5. Rutz, S. et al. (2015) *Nature* 518, 417-21.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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