

OTUD5 (D8Y2U) Rabbit mAb

Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: W, IP	Reactivity: H R Mk	Sensitivity: Endogenous	MW (kDa): 75	Source/Isotype: Rabbit IgG	UniProt ID: #Q96G74	Entrez-Gene Id: 55593
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Product Usage Information**Application**

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

OTUD5 (D8Y2U) Rabbit mAb recognizes endogenous levels of total OTUD5 protein.

Species predicted to react based on 100% sequence homology

Bovine, Dog, Pig

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human OTUD5 protein.

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 **R:** Rat **Mk:** Monkey

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