Store at -20C

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OTUB1 (D8F7) Rabbit mAb Cell Signaling TECHNOLOGY* 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	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 31	Source/Isotype: Rabbit IgG	UniProt ID: #Q96FW1	Entrez-Gene Id: 55611	
Product Usage Information		Application Western Blotting			Dilution 1:1000		
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		OTUB1 (D8F7) Rabbit mAb recognizes endogenous levels of total OTUB1 protein. This antibody does not cross-react with OTUB2 and based upon sequence alignment, is not predicted to cross-react with OTUB1, isoform 2 (ARF-1).					
Species predicted to react based on 100% sequence homology		Hamster, Bovine, Dog					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ile82 of human OTUB1 protein.					
Background		enzymes (UBEs) and d USP, UCH, OTU, MJD, a putative cysteine prot OTUB1 and OTUB2 (O any known DUB, but a histidine, and asparta Furthermore, sequend motifs (UIMs) and Ub- protein ubiquitination a consensus LxxLL mo nuclear hormone rece OTUB1 exists as two is ubiquitously expresse pattern and is mostly OTUB1 has a preferen chains and is capable isoforms have been in ligase GRAIL (5). More through a novel mech ligase RNF168 to drive appears to suppress M	leubiquitinating enzi and JAMM (1,2). The eases that are hom TU domain-contain are close homologs te residues that def ce analysis of OTUB associated domain . OTUB1 and OTUB; otif, which mediates ptors (4). soforms that are ge d, while the longer detected in lympho ice for cleaving K48 of cleaving NEDD8, nplicated in anergy recently, OTUB1 w. anism not involving e ubiquitination-dep ADM2-dependent u	on are reversible proces symes (DUBs) (1,2). DUB OTU subfamily compris ologous to the ovarian t ing Ubal-binding proteir and possess an OTU dor ine the putative catalytic 1 and OTUB2 reveals the s (UBAS), which are char 2 also possess a putative the interaction between nerated by alternative s 35 kDa isoform (ARF-1) I id organs (5). Biochemic -linked polyubiquitin cha but not SUMO-1, -2, and induction in CD4 ⁺ T cells as found to bind to and g OTUB1 DUB activity, th bendent repair of DNA d biquitination of p53 inde the MDM2 cognate E2 Ub	s are categorized in es a group of appro umor gene product is) display no signifi main that contains of c triad of cysteine p e presence of putati acteristic of protein e nuclear localizatio n transcriptional co- plicing; the shorter has a more restricter cal analysis has dem ains over K63-linked d -3 or ISG15 conjug s by regulating the si inhibit the E2 activit us compromising the ouble-strand lesion ependent of its cata	to 5 subfamilies: oximately 100 of <i>Drosophila</i> (3). icant similarity to conserved cysteine, roteases. ve Ub-interaction s that regulate n signal (NLS) and activators and 31 kDa isoform is ed expression ionstrated that l polyubiquitin gates (6). OTUB1 stability of the E3 cy of UBE2N ne ability of the E3 s (7). OTUB1 also	
Background Re	ferences	1. Nijman, S.M. et al. (? 2. Nalepa, G. et al. (20 3. Makarova, K.S. et al 4. Balakirev, M.Y. et al. 5. Soares, L. et al. (200 6. Edelmann, M.J. et al 7. Nakada, S. et al. (2012	06) <i>Nat Rev Drug D</i> . (2000) <i>Trends Bioc</i> (2003) <i>EMBO Rep 4</i> 4) <i>Nat Immunol</i> 5, I. (2009) <i>Biochem J</i> 10) <i>Nature</i> 466, 941	<i>iscov</i> 5, 596-613. <i>:hem Sci</i> 25, 50-2. I, 517-22. 45-54. I18, 379-90. -6.			

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			
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey			
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