NUB1 Antibody		Cell Signaling TECHNOLOGY®	
	Orders:	877-616-CELL (2355) orders@cellsignal.com	
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#	3 Trask Lane   Danvers   Ma	ssachusetts   01923   USA	

## For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB	<b>Reactivity:</b> H M R Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 78	Source: Rabbit	UniProt ID: #Q9Y5A7	Entrez-Gene Id: 51667	
Product Usage Information		plication estern Blotting			<b>Dilution</b> 1:1000		
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 / Sensi		NUB1 Antibody recognizes endogenous levels of total NUB1 protein. Based upon sequence alignment, this antibody is predicted to detect both NUB1 and NUB1L.					
Source / Purificati	resi	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human NUB1 protein. Antibodies are purified by protein A and peptide affinity chromatography.					
Background Background Refe	prot term The NUE add Add NEE (3,7 a de r <b>ences</b> 1. K 2. Ta 3. K 4. Ta 5. Li 6. H 7. H	<ul> <li>Both the NEDD8 ultimate buster 1 (NUB1) and the related NUB1L isoform are interferon-inducible adaptor proteins that negatively regulate ubiquitin-like protein NEDD8 (1,2). NUB1 protein contains an amino terminal ubiquitin-like (UBL) domain and multiple carboxy terminal ubiquitin-associated (UBA) domains. The NUB1L isoform is generated by alternative splicing and contains an extra UBA domain relative to NUB1 (2). Research studies indicate that NUB1 and NUB1L non-covalently bind NEDD8 and facilitate delivery of both NEDD8 monomers and NEDD8 conjugates to the proteasome for degradation (2-5). In addition, NUB1L binds and enhances the proteasomal degradation of the FAT10 ubiquitin-like protein (6). Additional research shows that NUB1 negatively regulates cell proliferation, likely due to inhibition of NEDD8 conjugation to SCF ubiquitin ligases, which leads to inhibition of p27 and cyclin E ubiquitination (3,7). NUB1 has been identified as a putative therapeutic target in Huntington's disease as NUB1 promotes a decrease in levels of mutant HTT protein (8).</li> <li>1. Kamitani, T. et al. (2001) <i>J Biol Chem</i> 276, 46655-60.</li> <li>2. Tanaka, T. et al. (2001) <i>J Biol Chem</i> 276, 20603-9.</li> <li>4. Tanji, K. et al. (2001) <i>J Biol Chem</i> 278, 32905-13.</li> <li>3. Kito, K. et al. (2001) <i>J Biol Chem</i> 278, 31339-49.</li> <li>6. Hipp, M.S. et al. (2004) <i>J Biol Chem</i> 279, 16503-10.</li> <li>7. Hosono, T. et al. (2010) <i>Br J Cancer</i> 102, 873-82.</li> </ul>					
	0. L	u, B. et al. (2013) <i>Na</i>	a neurosci 10, 502	-70.			
Species Reactivity	Spec	Species reactivity is determined by testing in at least one approved application (e.g., western blot).					
Western Blot Buff	••		ANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, een® 20 at 4°C with gentle shaking, overnight.				
Applications Key	WB	WB: Western Blotting					
Cross-Reactivity F	X: X:	<ul> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>					
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Limited Uses							

## NUB1 Antibody (#14810) Datasheet Without Images Cell Signaling Technology

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