## UPF1 Antibody TECHNOLOGY\* Orders: 877-616-CELL (2355) orders@cellsignal.com Support: 877-678-TECH (8324)



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

Applications: W, IP	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 140	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #Q92900	Entrez-Gene Id: 5976
Product Usage Information	2	<b>Application</b> Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 1:50	
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		UPF1 Antibody detects endogenous levels of total UPF1 protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human UPF1. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		UPF1 was identified as an active component in nonsense-mediated mRNA decay (NMD), an mRNA surveillance mechanism in eukaryotic cells that degrades mRNAs containing premature termination codons (1). UPF1 was found to be an ATP-dependent RNA helicase in the cytoplasm (2) and was later shown to be a component of cytoplasmic P-bodies (3). UPF1 phosphorylation mediates the repression of translation that accompanies NMD, allowing mRNA accessibility to the NMD machinery (4). Two other active components of NMD, UPF2 and UPF3, were also identified and described as having perinuclear and nucleocytoplasmic localization, respectively (5).				
Background References		1. Leeds, P. et al. (1991) <i>Genes Dev</i> 5, 2303-14. 2. Weng, Y. et al. (1996) <i>Mol Cell Biol</i> 16, 5477-90. 3. Bruno, I. and Wilkinson, M.F. (2006) <i>Cell</i> 125, 1036-8. 4. Isken, O. et al. (2008) <i>Cell</i> 133, 314-27. 5. Lykke-Andersen, J. et al. (2000) <i>Cell</i> 103, 1121-31.				
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 Mk: Monkey				
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