## Store at -200

## **UPF1** Antibody



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Applications: WB, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 140	Source: Rabbit	UniProt ID: #Q92900	Entrez-Gene Id: 5976	
Product Usage Information	Ар	plication		Dilution			
	We	Western Blotting			1:1000		
	Imi	munoprecipitation		1:50			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity / Sensi	tivity UPF	UPF1 Antibody detects endogenous levels of total UPF1 protein.					
Source / Purificati	resi	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	surv cod sho tran acti	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 Refer	2. W 3. B 4. Is	<ol> <li>Leeds, P. et al. (1991) Genes Dev 5, 2303-14.</li> <li>Weng, Y. et al. (1996) Mol Cell Biol 16, 5477-90.</li> <li>Bruno, I. and Wilkinson, M.F. (2006) Cell 125, 1036-8.</li> <li>Isken, O. et al. (2008) Cell 133, 314-27.</li> <li>Lykke-Andersen, J. et al. (2000) Cell 103, 1121-31.</li> </ol>					

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

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, Western Blot Buffer

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

WB: Western Blotting IP: Immunoprecipitation **Applications Key** 

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster **Cross-Reactivity Key** 

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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