

## Datasheet for ABIN7167641 anti-RENT1/UPF1 antibody (AA 956-1125) (FITC)



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Quantity:	100 μg	
Target:	RENT1/UPF1 (UPF1)	
Binding Specificity:	AA 956-1125	
Reactivity:	Human	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This RENT1/UPF1 antibody is conjugated to FITC	
Application:	Please inquire	
Product Details		
Immunogen:	Recombinant Human Regulator of nonsense transcripts 1 protein (956-1125AA)	
Isotype:	IgG	
Cross-Reactivity:	Human	
Purification:	>95%, Protein G purified	
Purification: Target Details	>95%, Protein G purified	
	>95%, Protein G purified  RENT1/UPF1 (UPF1)	
Target Details		

termination and undergoes a cycle of phosphorylation and dephosphorylation, its phosphorylation appears to be a key step in NMD. Recruited by release factors to stalled ribosomes together with the SMG1C protein kinase complex to form the transient SURF (SMG1-UPF1-eRF1) complex. In EJC-dependent NMD, the SURF complex associates with the exon junction complex (EJC) (located 50-55 or more nucleotides downstream from the termination codon) through UPF2 and allows the formation of an UPF1-UPF2-UPF3 surveillance complex which is believed to activate NMD. Phosphorylated UPF1 is recognized by EST1B/SMG5, SMG6 and SMG7 which are thought to provide a link to the mRNA degradation machinery involving exonucleolytic and endonucleolytic pathways, and to serve as adapters to protein phosphatase 2A (PP2A), thereby triggering UPF1 dephosphorylation and allowing the recycling of NMD factors. UPF1 can also activate NMD without UPF2 or UPF3, and in the absence of the NMD-enhancing downstream EJC indicative for alternative NMD pathways. Plays a role in replication-dependent histone mRNA degradation at the end of phase S, the function is independent of UPF2. For the recognition of premature termination codons (PTC) and initiation of NMD a competitive interaction between UPF1 and PABPC1 with the ribosomebound release factors is proposed. The ATPase activity of UPF1 is required for disassembly of mRNPs undergoing NMD. Essential for embryonic viability.

Aliases: ATP dependent helicase RENT1 antibody, ATP-dependent helicase RENT1 antibody, Delta helicase antibody, FLJ43809 antibody, FLJ46894 antibody, HUPF 1 antibody, hUpf1 antibody, KIAA0221 antibody, Nonsense mRNA reducing factor 1 antibody, NORF 1 antibody, NORF 1 antibody, pNORF 1 antibody, pNORF1 antibody, Regulator of nonsense transcripts 1 antibody, RENT1 antibody, RENT1 antibody, RENT1\_HUMAN antibody, Smg 2 antibody, Smg 2 homolog nonsense mediated mRNA decay factor antibody, UP Frameshift 1 antibody, Up frameshift mutation 1 homolog (S. cerevisiae) antibody, Up frameshift suppressor 1 homolog antibody, Up-frameshift suppressor 1 homolog antibody, UPF 1 antibody, UPF 1 regulator of nonsense transcripts homolog antibody, UPF1 RNA helicase and ATPase antibody, Yeast Upf1p homolog antibody

UniProt:

Q92900

Pathways:

SARS-CoV-2 Protein Interactome

**Application Details** 

Restrictions:

For Research Use only

## Handling

Format:	Liquid	
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4	
Preservative:	ProClin	
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.	
Storage:	-20 °C,-80 °C	
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.	