

hUPF1 Conjugated Antibody

Catalog No: #C49938



Package Size: #C49938-AF350 100ul #C49938-AF405 100ul #C49938-AF488 100ul
 #C49938-AF555 100ul #C49938-AF594 100ul #C49938-AF647 100ul
 #C49938-AF680 100ul #C49938-AF750 100ul #C49938-Biotin 100ul

Orders: order@signalwayantibody.com
 Support: tech@signalwayantibody.com

Description

Product Name	hUPF1 Conjugated Antibody
Host Species	Rabbit
Clonality	Monoclonal
Species Reactivity	Hu, Ms
Immunogen Description	Recombinant protein within human hUPF1 aa 1-200.
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	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 NORF1 antibody pNORF 1 antibody pNORF1 antibody Regulator of nonsense transcripts 1 antibody RENT 1 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 mutation 1 homolog 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 antibody UPF1 regulator of nonsense transcripts homolog antibody UPF1 RNA helicase and ATPase antibody Yeast Upf1p homolog antibody
Accession No.	Swiss-Prot#:Q92900
Uniprot	Q92900
GeneID	5976;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Calculated MW	124 kDa
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

Background

In eukaryotes, it is essential to have the ability to detect and degrade transcripts that lack full coding potential. Nonsense-mediated RNA decay (NMD) protects the organism by avoiding the translation of truncated peptides with dominant negative or deleterious gain-of-function potential. Rent1, a mammalian ortholog of Upf1, is essential for embryonic viability. Rent1 (also designated regulator of nonsense transcripts and HUpf1) contains an N-terminal zinc finger-like domain, NTPase domains and a region comprised of domains that define Rent1 as a superfamily group I helicase. Rent1 protein has nucleic-acid-dependent ATPase activity and 5' to 3' helicase activity. In addition, Rent1 is an RNA-binding protein whose activity is modulated by ATP and directly interacts with Rent2, which is a mammalian homolog of Upf2p. Two mammalian orthologs to Upf3p, Rent3a and Rent3b, are encoded by two separate genes. Rent3b (also known as Rent3X) is encoded by a X-linked gene and localizes primarily to the nucleus, while Rent 1 and Rent 2 localize primarily in the cytoplasm. Specific Rent3 protein interactions with Y14 and spliced mRNA suggest Rent3a and Rent3b serve as a link between splicing and NMD in the cytoplasm.

Note: This product is for in vitro research use only