

# hUPF1 Recombinant Rabbit mAb

hUPF1 Recombinant Rabbit mAb

Catalog # AP94811

## Product Information

---

<b>Application</b>	IF, ICC, IP
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Recombinant
<b>Calculated MW</b>	124 KDa
<b>Physical State</b>	Liquid
<b>Immunogen</b>	A synthesized peptide derived from human Regulator of nonsense transcripts 1
<b>Epitope Specificity</b>	1-53
<b>Isotype</b>	IgG
<b>Purity</b>	affinity purified by Protein A

<b>Buffer</b>	0.01M TBS(pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
<b>SUBCELLULAR LOCATION</b>	Cytoplasm. Cytoplasm, P-body. Note=Hyperphosphorylated form is targeted to the P-body, while unphosphorylated protein is distributed throughout the cytoplasm.

<b>SIMILARITY</b>	Belongs to the DNA2/NAM7 helicase family. Contains 1 C2H2-type zinc finger.
<b>SUBUNIT</b>	Found in a post-splicing messenger ribonucleoprotein (mRNP) complex. Associates with the exon junction complex (EJC). Associates with the SGM1C complex; is phosphorylated by the complex kinase component SGM1. Interacts with UPF2, UPF3A and UPF3B. Interacts with EST1A and SLBP. Interacts (when hyperphosphorylated) with PNRC2. Interacts with EIF2C1, EIF2C2 and GSPT2.

<b>Post-translational modifications</b>	Phosphorylated by SMG1; required for formation of mRNA surveillance complexes. Phosphorylated upon DNA damage, probably by ATM or ATR.
<b>Important Note</b>	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

<b>Background Descriptions</b>	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 Upflp, is essential for embryonic viability (1-3). 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.
--------------------------------	---

## Additional Information

---

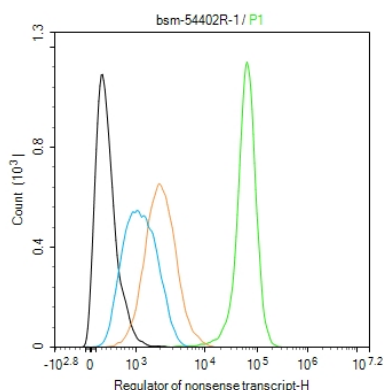
<b>Target/Specificity</b>	Ubiquitous.
<b>Dilution</b>	IP=1:10-50, Flow-Cyt=1ug/Test, ICC/IF=1:100

<b>Format</b>	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
<b>Storage</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

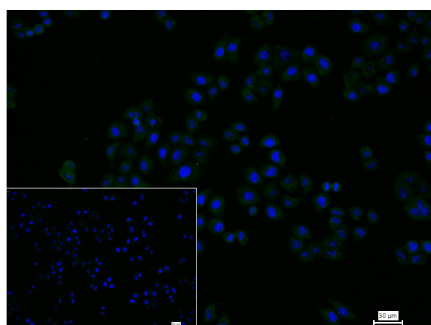
## Background

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

## Images



The HepG2 (H) cells were fixed with 4% PFA (10 min at r.t.) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C, the cells then were incubated in 5%BSA to block non-specific protein-protein interactions (30 min at r.t.). Primary Antibody (green): Rabbit Anti-Regulator of nonsense transcripts 1 antibody (AP94811): 1 µg/10<sup>6</sup> cells; Secondary Antibody (white blue): Goat anti-Rabbit IgG-FITC (bs-60295G-FITC): 1 µg/test. Isotype Control (orange): Rabbit IgG (bs-0295P). Blank control (black): PBS. Acquisition of 20,000 events was performed.



4% Paraformaldehyde-fixed HeLa(H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (Regulator of nonsense transcripts 1) monoclonal Antibody, unconjugated (AP94811) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Rabbit IgG antibody (green, bs-60295G-FITC) at 37°C for 90 min, DAPI (blue, C02-04002) was used to stain the cell nuclei. PBS instead of the primary antibody was used as the blank control.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.