

UPF1/RENT1 Rabbit pAb

Catalog No.: A1521

Basic Information

Observed MW

130kDa

Calculated MW

124kDa

Category

Primary antibody

Applications

ELISA, WB, IF/ICC, IP

Cross-Reactivity

Human, Mouse, Rat

Background

This gene encodes a protein that is part of a post-splicing multiprotein complex involved in both mRNA nuclear export and mRNA surveillance. mRNA surveillance detects exported mRNAs with truncated open reading frames and initiates nonsense-mediated mRNA decay (NMD). When translation ends upstream from the last exon-exon junction, this triggers NMD to degrade mRNAs containing premature stop codons. This protein is located only in the cytoplasm. When translation ends, it interacts with the protein that is a functional homolog of yeast Upf2p to trigger mRNA decapping. Use of multiple polyadenylation sites has been noted for this gene. Alternative splicing results in multiple transcript variants.

Recommended Dilutions

WB 1:500 - 1:2000

IF/ICC 1:50 - 1:200

IP 0.5µg-4µg antibody for
200µg-400µg extracts of
whole cells

Immunogen Information

Gene ID

5976

Swiss Prot

Q92900

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 819-1118 of human UPF1/RENT1 (NP_002902.2).

Synonyms

UTF; HUPF1; NORF1; RENT1; smg-2; pNORF1; UPF1/RENT1

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

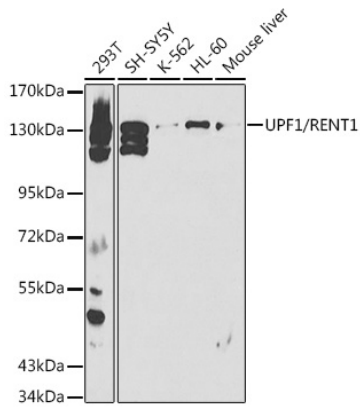
Affinity purification

Storage

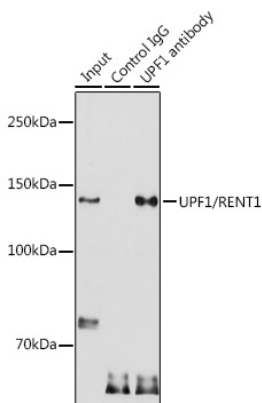
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.01% thimerosal, 50% glycerol, pH7.3.

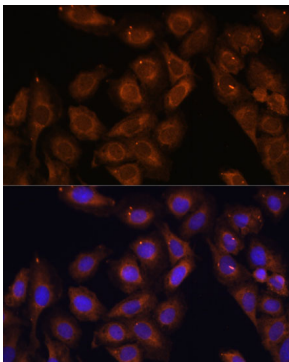
Validation Data



Western blot analysis of various lysates using UPF1/RENT1 Rabbit pAb (A1521) at 1:500 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST.



Immunoprecipitation analysis of 300 µg extracts of HeLa cells using 3 µg UPF1/RENT1 antibody (A1521). Western blot was performed from the immunoprecipitate using UPF1/RENT1 antibody (A1521) at a dilution of 1:1000.



Immunofluorescence analysis of U-2 OS cells using UPF1/RENT1 Rabbit pAb (A1521) at dilution of 1:100. Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.