

**UPF3A / RENT3A Antibody (internal region)**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF3031a****Specification**

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**UPF3A / RENT3A Antibody (internal region) - Product Information**

Application	E
Primary Accession	<a href="#">O9H1J1</a>
Other Accession	<a href="#">NP_075387.1</a> , <a href="#">NP_542418.1</a> , <a href="#">65110</a>
Predicted	Human, Cow
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	54696

**UPF3A / RENT3A Antibody (internal region) - Additional Information****Gene ID** 65110**Other Names**

Regulator of nonsense transcripts 3A, Nonsense mRNA reducing factor 3A, Up-frameshift suppressor 3 homolog A, hUpf3, UPF3A, RENT3A, UPF3

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

UPF3A / RENT3A Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**UPF3A / RENT3A Antibody (internal region) - Protein Information****Name** UPF3A**Synonyms** RENT3A, UPF3**Function**

Involved in nonsense-mediated decay (NMD) of mRNAs containing premature stop codons by associating with the nuclear exon junction complex (EJC) and serving as link between the EJC core and NMD machinery. Recruits UPF2 at the cytoplasmic side of the nuclear envelope and the subsequent formation of an UPF1-UPF2-UPF3 surveillance complex (including UPF1 bound to release factors at the stalled ribosome) is believed to activate NMD. However, UPF3A is shown to

be only marginally active in NMD as compared to UPF3B. Binds spliced mRNA upstream of exon-exon junctions. In vitro, weakly stimulates translation.

**Cellular Location**

Nucleus. Cytoplasm. Note=Shuttling between the nucleus and the cytoplasm.

**Tissue Location**

Isoform 1 is strongly expressed in testis, uterus, muscle, fetal brain and spinal cord. Isoform 2 is strongly expressed in fetal brain and spinal cord.

**UPF3A / RENT3A Antibody (internal region) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**UPF3A / RENT3A Antibody (internal region) - Images****UPF3A / RENT3A Antibody (internal region) - Background**

This antibody is expected to recognize both isoforms (NP\_075387.1; NP\_542418.1).

**UPF3A / RENT3A Antibody (internal region) - References**

Mutations in UPF3B, a member of the nonsense-mediated mRNA decay complex, cause syndromic and nonsyndromic mental retardation. Tarpey PS, Raymond FL, Nguyen LS, Rodriguez J, Hackett A, Vandeleur L, Smith R, Shoubridge C, Edkins S, Stevens C, O'Meara S, Tofts C, Barthorpe S, Buck G, Cole J, Halliday K, Hills K, Jones D, Mironenko T, Perry J, Varian J, West S, Widaa S, Teague J, Di  
Nature genetics 2007 Sep 39 (9): 1127-33. PMID: 17704778