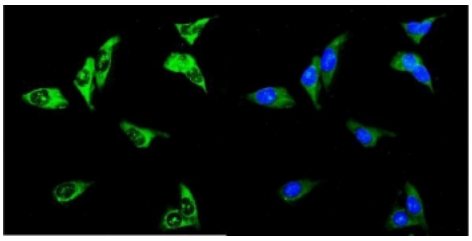
RENT3A Antibody / UPF3A (RQ5781)

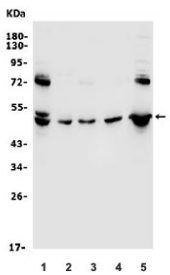
Catalog No.	Formulation	Size
RQ5781	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

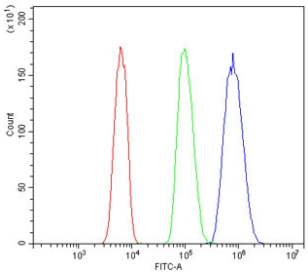
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	Q9H1J1
Applications	Western blot: 0.5-1ug/ml Immunofluorescence: 2-4ug/ml Flow cytometry: 1-3ug/million cells Direct ELISA: 0.1-0.5ug/ml
Limitations	This RENT3A antibody is available for research use only.



Immunofluorescent staining of FFPE human U-2 OS cells with RENT3A antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of human 1) HeLa, 2) HepG2, 3) HEK293, 4) rat PC-12 and 5) mouse NIH 3T3 lysate with RENT3A antibody. Predicted molecular weight ~51 kDa.



Flow cytometry testing of human HL-60 cells with RENT3A antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= RENT3A antibody.

Description

Regulator of nonsense transcripts 3A is a protein that in humans is encoded by the UPF3A gene. This gene encodes a protein that is part of a post-splicing multiprotein complex involved in both mRNA nuclear export and mRNA surveillance. The encoded protein is one of two functional homologs to yeast Upf3p. 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 binds to the mRNA and remains bound after nuclear export, acting as a nucleocytoplasmic shuttling protein. It forms with Y14 a complex that binds specifically 20 nt upstream of exon-exon junctions. This gene is located on the long arm of chromosome 13. Several splice variants encoding different isoforms have been found for this gene.

Application Notes

Optimal dilution of the RENT3A antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids E4-E452) was used as the immunogen for the RENT3A antibody.

Storage

After reconstitution, the RENT3A antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com
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