

Anti-UPF3B/RENT3B Picoband Antibody

Catalog # ABO12529

Product Information

Application	WB, IHC-P
Primary Accession	Q9BZ17
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Regulator of nonsense transcripts 3B(UPF3B) detection. Tested with WB, IHC-P in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	65109
Other Names	Regulator of nonsense transcripts 3B, Nonsense mRNA reducing factor 3B, Up-frameshift suppressor 3 homolog B, hUpf3B, Up-frameshift suppressor 3 homolog on chromosome X, hUpf3p-X, UPF3B, RENT3B, UPF3X
Calculated MW	57762
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat Western blot, 0.1-0.5 µg/ml, Human, Rat
Subcellular Localization	Nucleus. Cytoplasm. Shuttling between the nucleus and the cytoplasm.
Tissue Specificity	Expressed in testis, uterus, prostate, heart, muscle, brain, spinal cord and placenta. .
Source	Eukaryota
Protein Name	Regulator of nonsense transcripts 3B
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human UPF3B /RENT3B (416-452aa SEKTEKKEEVKRDRI RNKDRPAMQLYQPGARSRNRL).
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins

Storage At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

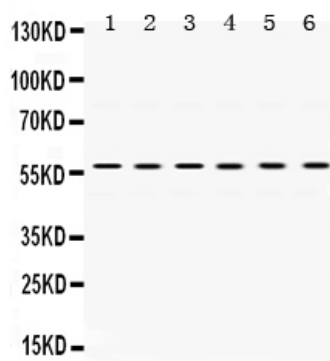
Protein Information

Name	UPF3B (HGNC:20439)
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. In cooperation with UPF2 stimulates both ATPase and RNA helicase activities of UPF1. Binds spliced mRNA upstream of exon-exon junctions. In vitro, stimulates translation; the function is independent of association with UPF2 and components of the EJC core.
Cellular Location	Nucleus. Cytoplasm Note=Shuttling between the nucleus and the cytoplasm
Tissue Location	Expressed in testis, uterus, prostate, heart, muscle, brain, spinal cord and placenta.

Background

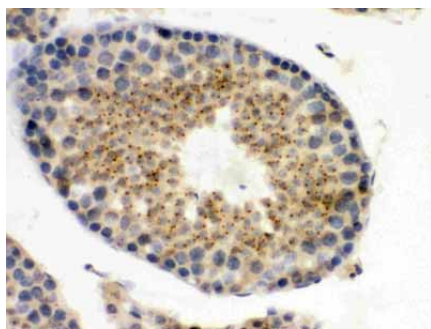
Regulator of nonsense transcripts 3B is a protein that in humans is encoded by the UPF3B gene. This gene encodes a protein that is part of a post-splicing multiprotein complex involved in both mRNA nuclear export and mRNA surveillance. The encoded protein is one of two functional homologs to yeast Upf3p. 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 X. Two splice variants encoding different isoforms have been found for this gene.

Images

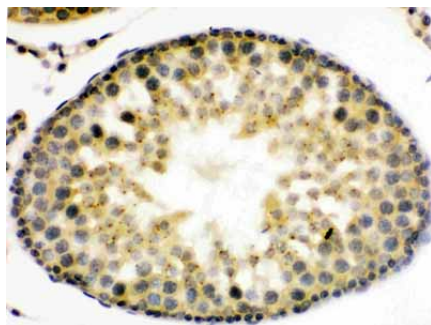


Anti- UPF3B/RENT3B Picoband antibody, ABO12529,
Western blottingAll lanes: Anti UPF3B/RENT3B
(ABO12529) at 0.5ug/mlLane 1: Rat Cardiac Muscle Tissue
Lysate at 50ugLane 2: Rat Brain Tissue Lysate at 50ugLane
3: HELA Whole Cell Lysate at 40ugLane 4: 22RV1 Whole
Cell Lysate at 40ugLane 5: U87 Whole Cell Lysate at
40ugLane 6: JURKAT Whole Cell Lysate at 40ugPredicted
bind size: 58KDObserved bind size: 58KD

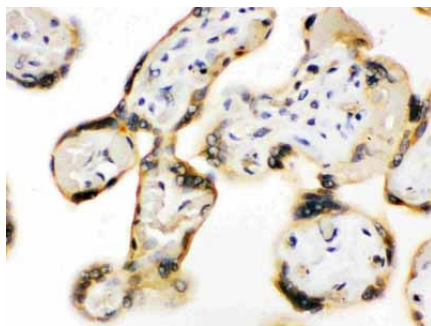
Anti- UPF3B/RENT3B Picoband antibody, ABO12529,
IHC(P)IHC(P): Mouse Testis Tissue



Anti- UPF3B/RENT3B Picoband antibody, ABO12529,
IHC(P)IHC(P): Rat Testis Tissue



Anti- UPF3B/RENT3B Picoband antibody, ABO12529,
IHC(P)IHC(P): Human Placenta Tissue



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