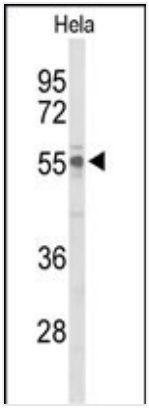
UPF3B Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	UPF3B, Polyclonal Antibody
Full Product Name	UPF3B Antibody (Center)
Product Gene Name	anti-UPF3B antibody
Product Synonym Gene Name	RB24305
Product Synonym 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
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Purity/Purification	Affinity Purified Rabbit Polyclonal Antibody (Pab)
Specificity	This UPF3B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 320-349 amino acids from the Central region of human UPF3B.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Molecular Weight	56,213 Da
OMIM	300298
3D Structure	ModBase 3D Structure for Q9BZI7
Antigen Region	320-349
Product Categories/Family for anti-UPF3B antibody	Primary Antibodies
Applications Tested/Suitable for anti-UPF3B antibody	Western Blot (WB)
Related Product Information for anti-UPF3B antibody	UPF3B is a protein that is part of a post-splicing multiprotein complex involved in both mRNA nuclear export and mRNA surveillance. This 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.
Product References and Citations for anti-UPF3B antibody	Chan, W.K., et al. Nat. Struct. Mol. Biol. 16 (7):747-753 (2009)Woeller, C.F., et al. EMBO Rep. 9 (5):446-451 (2008)Chamieh, H., et al. Nat. Struct. Mol. Biol. 15 (1):85-93 (2008)
Other Notes	Small volumes of anti-UPF3B antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for UPF3B purchase	MBS9246801 is an antibody targeting UPF3B. Also known as UPF3B Antibody (Center). Reactive in Human. Host: Rabbit.



Wester Blot (WB) of anti-UPF3B antibody
Dilution: WB 1:1000Western blot analysis of UPF3B Antibody (Center) (Cat. #MBS9246801) in Hela cell line lysates (35ug/lane). UPF3B (arrow) was detected using the purified Pab.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for UPF3B. It may not necessarily be applicable to this product.

NCBI GI #	12711674
NCBI GeneID	65109
NCBI Accession #	NP_075386.1
NCBI Related Accession #	NP_542199.1
UniProt Primary Accession #	Q9BZI7
UniProt Secondary Accession #	Q0VAK8; Q9H1J0; D3DWI3; D3DWI4
UniProt Related Accession #	Q9BZI7
GenBank Nucleotide #	NM_023010.3
NCBI Official Full Name	regulator of nonsense transcripts 3B isoform 2
NCBI Official Synonym Full Names	UPF3 regulator of nonsense transcripts homolog B (yeast)
NCBI Official Symbol	UPF3B
NCBI Official Synonym Symbols	MRX62; UPF3X; HUPF3B; MRXS14; RENT3B; UPF3BP1; UPF3BP2; UPF3BP3; Upf3p-X
UniProt Protein Name	Regulator of nonsense transcripts 3B
UniProt Synonym Protein Names	Nonsense mRNA reducing factor 3B; Up-frameshift suppressor 3 homolog B; hUpf3B; Up-frameshift suppressor 3 homolog on chromosome X; hUpf3p-X
Protein Family	Regulator of nonsense transcripts
UniProt Gene Name	UPF3B
UniProt Synonym Gene Names	RENT3B; UPF3X; hUpf3B; hUpf3p-X
UniProt Entry Name	REN3B_HUMAN
NCBI Protein Information	regulator of nonsense transcripts 3B

NCBI Summary for UPF3B	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. [provided by RefSeq, Jul 2008]
UniProt Comments for UPF3B	UPF3B: 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 indepenedent of association with UPF2 and components of the EJC core. Defects in UPF3B are the cause of mental retardation syndromic X-linked type 14 (MRXS14). Mental retardation is characterized by significantly below average general intellectual functioning associated with impairments in adaptative behavior and manifested during the developmental period. MRXS14 patients manifest mental retardation associated with other variable signs such as autistic features, slender build, poor musculature, long, thin face, high-arched palate, high nasal bridge, and pectus deformities. Belongs to the RENT3 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: RNA-binding; RNA splicing Chromosomal Location of Human Ortholog: Xq24 Cellular Component: cytoplasm; cytosol; microtubule organizing center; nucleolus; nucleoplasm; nucleus Molecular Function: mRNA binding; nucleocytoplasmic transporter activity; nucleotide binding; protein binding Biological Process: mRNA 3'-end processing; mRNA catabolic process, nonsense-mediated decay; mRNA export from nucleus; nuclear mRNA splicing, via spliceosome; positive regulation of translation; RNA export from nucleus; termination of RNA polymerase II transcription Disease: Mental Retardation, X-linked, Syndromic 14
Research Articles on UPF3B	**1.** the neurodevelopmental phenotype of UPF3B missense mutation is caused by impairment of nonsense-mediated mRNA decay pathway function altering neuronal differentiation.
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