RRN3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RRN3, Polyclonal Antibody
Full Product Name	RRN3, ID (RRN3, TIFIA, RNA polymerase I-specific transcription initiation factor RRN3, Transcription initiation factor IA) (MaxLight 490)
Product Gene Name	anti-RRN3 antibody
Product Synonym Names	RRN3; TIFIA; RNA polymerase I-specific transcription initiation factor RRN3; Transcription initiation factor IA
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	74,107 Da
Chromosome Location	Chromosome: 16; NC_000016.9 (15153879..15188158, complement). Location: 16p12
OMIM	605121
3D Structure	ModBase 3D Structure for Q9NYV6
Immunogen	RRN3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 276-305 amino acids from the Central region of human RRN3.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-RRN3 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-RRN3 antibody	Western Blot (WB), FLISA
Application Notes for anti-RRN3 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-RRN3 antibody	Required for efficient transcription initiation by RNA polymerase I. Required for the formation of the competent preinitiation complex (PIC). Dissociates from pol I as a consequence of transcription. In vitro, cannot activate transcription in a subsequent transcription reaction (By similarity).
Product References and Citations for anti-RRN3 antibody	Bierhoff, H., et al. Mol. Cell. Biol. 28(16):4988-4998(2008). Amit, M., et al. BMC Mol. Biol. 8, 109 (2007): Mayer, C., et al. Genes Dev. 18(4):423-434(2004). Hirschler-Laszkiewicz, I., et al. J. Biol. Chem. 278(21):18953-18959(2003). Zhao, J., et al. Mol. Cell 11(2):405-413(2003).

Other Notes	Small volumes of anti-RRN3 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 RRN3 purchase	MBS6344134 is an antibody targeting RRN3. Also known as RRN3, ID (RRN3, TIFIA, RNA polymerase I-specific transcription initiation factor RRN3, Transcription initiation factor IA) (MaxLight 490). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RRN3. It may not necessarily be applicable to this product.

NCBI GI #	93102377
NCBI GeneID	54700
NCBI Accession #	NP_060897.3
UniProt Primary Accession #	Q9NYV6
UniProt Secondary Accession #	Q6IPL4; Q9H4F0; A2RTY9
UniProt Related Accession #	Q9NYV6
GenBank Nucleotide #	NM_018427.3
NCBI Official Full Name	RNA polymerase I-specific transcription initiation factor RRN3
NCBI Official Synonym Full Names	RRN3 RNA polymerase I transcription factor homolog (S. cerevisiae)
NCBI Official Symbol	RRN3
NCBI Official Synonym Symbols	TIFIA; A-270G1.2
UniProt Protein Name	RNA polymerase I-specific transcription initiation factor RRN3
UniProt Synonym Protein Names	Transcription initiation factor IA
Protein Family	RNA polymerase I-specific transcription initiation factor
UniProt Gene Name	RRN3
UniProt Synonym Gene Names	TIFIA; TIF-IA
UniProt Entry Name	RRN3_HUMAN
NCBI Protein Information	RNA polymerase I-specific transcription initiation factor RRN3; TIF-IA; transcription initiation factor IA; transcription initiation factor TIF-IA
UniProt Comments for RRN3	TIF1A: a transcription initiation factor. RNA polymerase I transcription factor RRN3. A growth-dependent regulator of ribosomal RNA synthesis Protein type: Transcription initiation complex; Nucleolus Chromosomal Location of Human Ortholog: 16p12 Cellular Component: nucleoplasm; nucleolus; nucleus Biological Process: cell proliferation; in utero embryonic development; positive regulation of transcription, DNA-dependent; ribosome biogenesis and assembly; homeostasis of number of cells; transcription from RNA polymerase I promoter; gene expression; cytoplasm organization and biogenesis; transcription initiation from RNA polymerase I promoter; nucleolus organization and biogenesis
Research Articles on RRN3	**1.** DNA binding by the ribosomal DNA transcription factor rrn3 is essential for ribosomal DNA transcription

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