RRN3 Antibody (Center) Blocking Peptide

PRODUCT OVERVIEW

Product Name	RRN3, Blocking Peptide
Full Product Name	RRN3 Antibody (Center) Blocking Peptide
Product Gene Name	RRN3 blocking peptide
Product Synonym Gene Name	TIFIA
Product Synonym Names	RNA polymerase I-specific transcription initiation factor RRN3; Transcription initiation factor IA; TIF-IA; RRN3; TIFIA
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	RRN3 peptide (MBS9222461) is used for blocking the activity of RRN3 antibody (MBS9212322)
Molecular Weight	53,315 Da
OMIM	605121
Cellular Location	Nucleus, nucleolus
Related Product Information for RRN3 blocking peptide	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).
Other Notes	Small volumes of RRN3 blocking peptide 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	MBS9222461 is a blocking peptide targeting RRN3. Also known as RRN3 Antibody (Center) Blocking Peptide.

ADDITIONAL DETAILS

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

NCBI GI #	74719591
NCBI GeneID	54700
NCBI Accession #	Q9NYV6.1
UniProt Primary Accession #	Q9NYV6
UniProt Secondary Accession #	Q3MHU9; Q6IPL4; Q9H4F0; A2RTY9; B4E0J7; B4E3T2
UniProt Related Accession #	Q9NYV6
NCBI Official Full Name	RNA polymerase I-specific transcription initiation factor RRN3
NCBI Official Synonym Full Names	RRN3 homolog, RNA polymerase I transcription factor
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; TIF-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
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: nucleolus; nucleoplasm; nucleus Biological Process: transcription initiation from RNA polymerase I promoter
Research Articles on RRN3	**1.** These data support a model in which activated Akt enhances rRNA synthesis both by preventing TIF-IA degradation and phosphorylating CK2alpha, which in turn phosphorylates TIF-IA.
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