

For Research Use Only

RRN3 Recombinant monoclonal antibody

Catalog Number: 87046-1-RR



Basic Information

Catalog Number: 87046-1-RR	GenBank Accession Number: BC132688	Purification Method: Protein A purification
Size: 100ul, Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 54700	CloneNo.: 252129D11
Source: Rabbit	UNIPROT ID: Q9NYV6	Recommended Dilutions: WB: 1:5000-1:50000
Isotype: IgG	Full Name: RRN3 RNA polymerase I transcription factor homolog (S. cerevisiae)	
Immunogen Catalog Number: AG23207	Observed MW: 75 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB: HeLa cells, Jurkat cells, mouse testis tissue
Species Specificity: human, mouse	

Background Information

RRN3, also known as transcription initiation factor IA, is a key regulatory protein essential for RNA polymerase I-mediated ribosomal DNA transcription. It functions as a bridge molecule that precisely regulates the recruitment of RNA polymerase I to the rDNA promoter and the assembly of the transcription initiation complex by integrating intra- and extracellular signals (such as growth factors, nutrient status, and cellular stress). The activity of RRN3 is tightly controlled by multiple signaling pathways. Specifically, the mTOR and MAPK pathways can activate RRN3 through phosphorylation, thereby promoting ribosomal RNA synthesis and ultimately influencing cell growth and proliferation. Studies have shown that RRN3 is abnormally highly expressed in various cancer cells and is closely associated with malignant tumor progression, making it a potential therapeutic target for anticancer strategies.

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

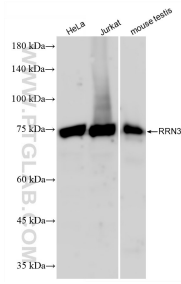
For technical support and original validation data for this product please contact:

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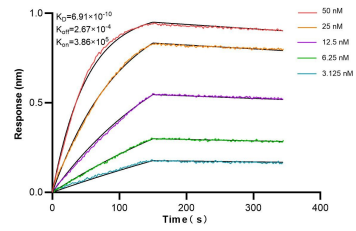
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 87046-1-RR (RRN3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 87046-1-RR against Human RRN3 were performed. The affinity constant is 0.691 nM.