RRP8 Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	RRP8, Lysate
Full Product Name	Human RRP8 Protein Lysate
Product Gene Name	RRP8 lysate
Product Synonym Names	RRP8; KIAA0409; NML
Host	Human
Form/Format	Lyophilized
Preparation and Storage	Store at -20 degree C Once reconsituted, aliquot and store any remaining material at-20 degree C to avoid repeated freeze-thaw cycles.
Molecular Weight	50kDa
3D Structure	ModBase 3D Structure for O43159
Related Product Information for RRP8 lysate	Human RRP8 Protein Lysate 20ug is provided as a Lyophilized powder. This is a Recombinant Protein Lysate produced in HEK293T cells. This protein lysate can be reconsituted using SDS Sample Buffer.
Other Notes	Small volumes of RRP8 lysate 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 RRP8 purchase	MBS8418894 is a lysate targeting RRP8. Also known as Human RRP8 Protein Lysate. Host: Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RRP8. It may not necessarily be applicable to this product.

NCBI GI #	12758125
NCBI GeneID	23378
NCBI Accession #	NP_056139
UniProt Primary Accession #	O43159
UniProt Related Accession #	O43159
GenBank Nucleotide #	NM_015324
NCBI Official Full Name	ribosomal RNA-processing protein 8
NCBI Official Synonym Full Names	ribosomal RNA processing 8
NCBI Official Symbol	RRP8
NCBI Official Synonym Symbols	NML; KIAA0409
UniProt Protein Name	Ribosomal RNA-processing protein 8
UniProt Synonym Protein Names	Cerebral protein 1; Nucleomethylin
Protein Family	25S rRNA
UniProt Gene Name	RRP8

UniProt Synonym Gene Names	KIAA0409; NML
UniProt Entry Name	RRP8_HUMAN
NCBI Protein Information	ribosomal RNA-processing protein 8
UniProt Comments for RRP8	RRP8: Essential component of the eNoSC (energy-dependent nucleolar silencing) complex, a complex that mediates silencing of rDNA in response to intracellular energy status and acts by recruiting histone-modifying enzymes. The eNoSC complex is able to sense the energy status of cell: upon glucose starvation, elevation of NAD(+)/NADP(+) ratio activates SIRT1, leading to histone H3 deacetylation followed by dimethylation of H3 at 'Lys-9' (H3K9me2) by SUV39H1 and the formation of silent chromatin in the rDNA locus. In the complex, RRP8 binds to H3K9me2 and probably acts as a methyltransferase. Its substrates are however unknown. Component of the eNoSC complex, composed of SIRT1, SUV39H1 and RRP8. Belongs to the methyltransferase superfamily. RRP8 family. Protein type: EC 2.1.1.-; RNA-binding; Nucleolus Chromosomal Location of Human Ortholog: 11p15.4 Cellular Component: nucleoplasm; chromatin silencing complex; cytoplasm; plasma membrane; nucleolus; nucleus Molecular Function: protein binding; S-adenosylmethionine-dependent methyltransferase activity; methylated histone residue binding Biological Process: methylation; chromatin silencing at rDNA; cellular response to glucose starvation; transcription, DNA-dependent; negative regulation of gene expression, epigenetic; gene expression; chromatin modification; regulation of gene expression, epigenetic; regulation of transcription by glucose; rRNA processing
Research Articles on RRP8	**1.** NML depletion increases 60S ribosomal protein L11 (RPL11) levels in the ribosome-free fraction and protein levels of p53 through an RPL11-MDM2 complex, which activates the p53 pathway.
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