EXOSC2 Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	EXOSC2, Lysate
Full Product Name	Human EXOSC2 Protein Lysate
Product Gene Name	EXOSC2 lysate
Product Synonym Names	EXOSC2; hRrp4p; p7; RRP4; Rrp4p; SHRF
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	30,045 Da
OMIM	602238
3D Structure	ModBase 3D Structure for Q13868
Related Product Information for EXOSC2 lysate	Human EXOSC2 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 EXOSC2 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 EXOSC2 purchase	MBS8411302 is a lysate targeting EXOSC2. Also known as Human EXOSC2 Protein Lysate. Host: Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EXOSC2. It may not necessarily be applicable to this product.

NCBI GI #	19923403
NCBI GeneID	23404
NCBI Accession #	NP_055100
UniProt Primary Accession #	Q13868
UniProt Secondary Accession #	Q9NUY4; A3KFL3; B4DKK6
UniProt Related Accession #	Q13868
GenBank Nucleotide #	NM_014285
NCBI Official Full Name	exosome complex component RRP4 isoform 1
NCBI Official Synonym Full Names	exosome component 2
NCBI Official Symbol	EXOSC2
NCBI Official Synonym Symbols	p7; RRP4; Rrp4p; hRrp4p
UniProt Protein Name	Exosome complex component RRP4

UniProt Synonym Protein Names	Exosome component 2; Ribosomal RNA-processing protein 4
UniProt Gene Name	EXOSC2
UniProt Synonym Gene Names	RRP4
UniProt Entry Name	EXOS2_HUMAN
NCBI Protein Information	exosome complex component RRP4; exosome complex exonuclease RRP4; homolog of yeast RRP4 (ribosomal RNA processing 4), 3' 5' exoribonuclease (RRP4); homolog of yeast RRP4 (ribosomal RNA processing 4), 3'-5'-exoribonuclease; ribosomal RNA-processing protein
UniProt Comments for EXOSC2	RRP4: Non-catalytic component of the RNA exosome complex which has 3'->5' exoribonuclease activity and participates in a multitude of cellular RNA processing and degradation events. In the nucleus, the RNA exosome complex is involved in proper maturation of stable RNA species such as rRNA, snRNA and snoRNA, in the elimination of RNA processing by-products and non-coding 'pervasive' transcripts, such as antisense RNA species and promoter-upstream transcripts (PROMPTs), and of mRNAs with processing defects, thereby limiting or excluding their export to the cytoplasm. The RNA exosome may be involved in Ig class switch recombination (CSR) and/or Ig variable region somatic hypermutation (SHM) by targeting AICDA deamination activity to transcribed dsDNA substrates. In the cytoplasm, the RNA exosome complex is involved in general mRNA turnover and specifically degrades inherently unstable mRNAs containing AU-rich elements (AREs) within their 3' untranslated regions, and in RNA surveillance pathways, preventing translation of aberrant mRNAs. It seems to be involved in degradation of histone mRNA. The catalytic inactive RNA exosome core complex of 9 subunits (Exo-9) is proposed to play a pivotal role in the binding and presentation of RNA for ribonucleolysis, and to serve as a scaffold for the association with catalytic subunits and accessory proteins or complexes. EXOSC2 as peripheral part of the Exo-9 complex stabilizes the hexameric ring of RNase PH-domain subunits through contacts with EXOSC4 and EXOSC7. Protein type: RNA processing; EC 3.1.13.-; Ribonuclease; Nucleolus Chromosomal Location of Human Ortholog: 9q34 Cellular Component: cytoplasm; nucleolus; exosome (RNase complex); cytosol; nucleus; nuclear exosome (RNase complex) Molecular Function: protein binding; 3'-5'-exoribonuclease activity; exoribonuclease activity; 7S RNA binding Biological Process: gene expression; exonucleolytic trimming to generate mature 3'-end of 5.8S rRNA from tricistronic rRNA transcript (SSU-rRNA, 5.8S rRNA, LSU-rRNA); positive regulation of cell growth; rRNA processing; mRNA catabolic process, deadenylation-dependent decay
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