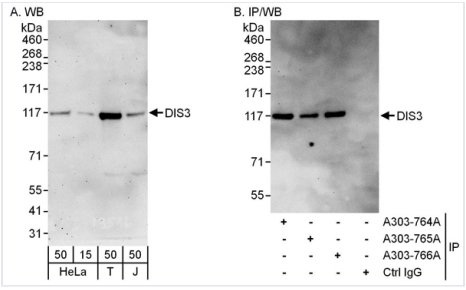
DIS3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	DIS3, Polyclonal Antibody
Full Product Name	Rabbit anti-DIS3 Antibody, Affinity Purified
Product Gene Name	anti-DIS3 antibody
Product Synonym Names	exosome component 11; KIAA1008; RRP44; ribosomal RNA-processing protein 44; mitotic control protein dis3 homolog; EXOSC11; 2810028N01Rik; dis3p; Protein DIS3 homolog; DIS3 mitotic control homolog; DIS3 exosome endoribonuclease and 3'-5' exoribonuclease; exosome complex exonuclease RRP44; Exosome complex exonuclease RRP44; DIS3 homolog, exosome endoribonuclease and 3'-5' exoribonuclease
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid. Whole IgG. Tris-citrate/phosphate buffer, pH 7 to 8 containing 0.09% Sodium Azide
Purity/Purification	Antigen Affinity Purified
Concentration	1000ug/ml (lot specific)
Preparation and Storage	Store at 2-8 degree C Shelf Life: 1 year from date of receipt
Molecular Weight	105,040 Da
OMIM	607533
3D Structure	ModBase 3D Structure for Q9Y2L1
Immunogen	Between 1 and 50
Conjugation	Unconjugated
Product Categories/Family for anti-DIS3 antibody	Primary Antibodies
Applications Tested/Suitable for anti-DIS3 antibody	Western Blot (WB), Immunoprecipitation (IP)
Application Notes for anti-DIS3 antibody	WB: 1:2000-1:10,000 IP: 6ug/mg lysate
Related Product Information for anti-DIS3 antibody	DIS3 mitotic control homolog is a putative 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 [taken from the Universal Protein Resource (UniProt) www.uniprot.org/uniprot/Q9BX67].
Other Notes	Small volumes of anti-DIS3 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 DIS3 purchase	MBS3904013 is an antibody targeting DIS3. Also known as Rabbit anti-DIS3 Antibody, Affinity Purified. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-DIS3 antibody
Detection of human DIS3 by western blot and immunoprecipitation. Samples: Whole cell lysate from HeLa (15 and 50 ug for WB; 1 mg for IP, 20% of IP loaded), HEK293T (T; 50 ug) and Jurkat (J; 50 ug) cells. Antibodies: Affinity purified rabbit anti-DIS3 antibody MBS3904013 used for WB at 0.1 ug/ml (A) and 1 ug/ml (B) and used for IP at 6 ug/mg lysate. DIS3 was also immunoprecipitated by rabbit anti-DIS3 antibodies MBS3904014 and MBS3904015, which recognize downstream epitopes. Detection: Chemiluminescence with exposure times of 3 minutes (A) and 30 seconds (B).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DIS3. It may not necessarily be applicable to this product.

NCBI GI #	190014623
NCBI GeneID	22894
NCBI Accession #	NP_055768.3
UniProt Primary Accession #	Q9Y2L1
UniProt Secondary Accession #	Q5W0P7; Q5W0P8; Q658Z7; Q7Z481; Q8WWI2; Q9UG36; A6NI21; B2RBL2
UniProt Related Accession #	Q9Y2L1
GenBank Nucleotide #	NM_014953.4
NCBI Official Full Name	exosome complex exonuclease RRP44 isoform a
NCBI Official Synonym Full Names	DIS3 exosome endoribonuclease and 3'-5' exoribonuclease
NCBI Official Symbol	DIS3
NCBI Official Synonym Symbols	RRP44; dis3p; EXOSC11; KIAA1008; 2810028N01Rik
UniProt Protein Name	Exosome complex exonuclease RRP44
UniProt Synonym Protein Names	Protein DIS3 homolog; Ribosomal RNA-processing protein 44
Protein Family	Exosome complex exonuclease
UniProt Gene Name	DIS3
UniProt Synonym Gene Names	KIAA1008; RRP44
UniProt Entry Name	RRP44_HUMAN
NCBI Protein Information	exosome complex exonuclease RRP44; exosome component 11; DIS3 mitotic control homolog; ribosomal RNA-processing protein 44; mitotic control protein dis3 homolog

UniProt Comments for DIS3	DIS3: Putative 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. DIS3 has both 3'-5' exonuclease and endonuclease activities. Belongs to the RNR ribonuclease family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 3.1.13.-; Ribonuclease; Nucleolus; RNA processing; EC 3.1.13.-; G protein regulator, misc.; EC 3.1.26.- Chromosomal Location of Human Ortholog: 13q22.1 Cellular Component: nucleoplasm; membrane; nucleolus; exosome (RNase complex); cytosol; nuclear exosome (RNase complex) Molecular Function: protein binding; 3'-5'-exoribonuclease activity; RNA binding; guanyl-nucleotide exchange factor activity; endonuclease activity Biological Process: rRNA catabolic process; gene expression; rRNA processing; mRNA catabolic process, deadenylation-dependent decay; positive regulation of GTPase activity
Research Articles on DIS3	**1.** Overexpression of DIS3 and LRCH1 associated with adenoma to carcinoma progression is linked to the colorectal cancer specific gain of 13q.
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