

**DIS3 Antibody (N-Terminus)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS16760**

**Specification**

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**DIS3 Antibody (N-Terminus) - Product Information**

Application	IHC, IF, WB
Primary Accession	<a href="#">O9Y2L1</a>
Other Accession	<a href="#">22894</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	109003

**DIS3 Antibody (N-Terminus) - Additional Information**

**Gene ID** 22894

**Other Names**

DIS3, Dis3p, EXOSC11, Exosome component 11, KIAA1008, RRP44, Protein DIS3 homolog, BA555G22.1, RP11-342J4.3

**Target/Specificity**

Multiple isoforms of DIS3 are known to exist.

**Reconstitution & Storage**

PBS, 0.02% sodium azide. Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

**Precautions**

DIS3 Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

**DIS3 Antibody (N-Terminus) - Protein Information**

**Name** DIS3

**Synonyms** KIAA1008, RRP44

**Function**

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.

#### Cellular Location

Cytoplasm. Nucleus, nucleolus. Nucleus, nucleoplasm. Nucleus Note=Predominantly located in the nucleus (PubMed:20531386). According to PubMed:12429849, found in the nucleolus (PubMed:12429849). According to PubMed:20531386, excluded from nucleolus supporting the existence of a nucleolar RNA exosome complex devoid of DIS3 (PubMed:20531386)

#### Tissue Location

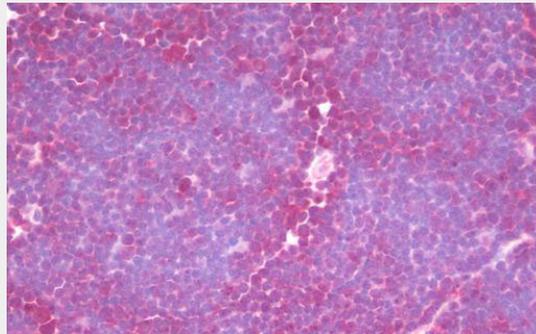
Widely expressed.

#### DIS3 Antibody (N-Terminus) - Protocols

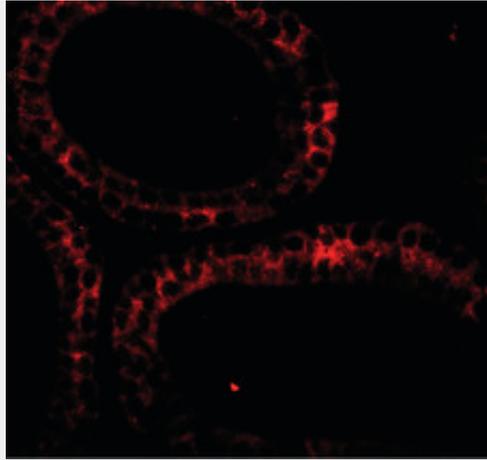
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

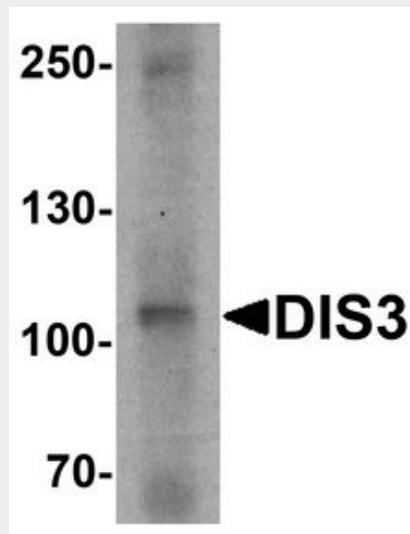
#### DIS3 Antibody (N-Terminus) - Images



Anti-DIS3 antibody IHC staining of human thymus.



Immunofluorescence of DIS3 in mouse testis tissue with DIS3 antibody at 20 ug/ml.



Western blot analysis of DIS3 in human ovary tissue lysate with DIS3 antibody at 1 ug/ml.

#### **DIS3 Antibody (N-Terminus) - Background**

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.

#### **DIS3 Antibody (N-Terminus) - References**

- Shiomi T.,et al.J. Biochem. 123:883-890(1998).
- Shiomi T.,et al.J. Biochem. 124:250-250(1998).
- Rozenblum E.,et al.Hum. Genet. 110:111-121(2002).

Nagase T., et al. DNA Res. 6:63-70(1999).  
Nakajima D., et al. DNA Res. 9:99-106(2002).