

**DIS3 Antibody (Center) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP10196c****Specification**

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**DIS3 Antibody (Center) Blocking peptide - Product Information**Primary Accession  
Other Accession[O9Y2L1](#)  
[NP\\_001121698.1](#), [NP\\_055768.3](#)**DIS3 Antibody (Center) Blocking peptide - Additional Information****Gene ID** 22894**Other Names**

Exosome complex exonuclease RRP44, 3113-, 3126-, Protein DIS3 homolog, Ribosomal RNA-processing protein 44, DIS3, KIAA1008, RRP44

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**DIS3 Antibody (Center) Blocking peptide - 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 (Center) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**DIS3 Antibody (Center) Blocking peptide - Images****DIS3 Antibody (Center) Blocking peptide - References**

Tomecki, R., et al. EMBO J. 29(14):2342-2357(2010) Andersen, J.S., et al. Nature 433(7021):77-83(2005) Lehner, B., et al. Genome Res. 14(7):1315-1323(2004) Dunham, A., et al. Nature 428(6982):522-528(2004) Scherl, A., et al. Mol. Biol. Cell 13(11):4100-4109(2002)