

ARG43048 anti-DIS3 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes DIS3
Tested Reactivity	Hu
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	DIS3
Species	Human
Immunogen	Recombinant protein corresponding to Q62-A304 of Human DIS3.
Conjugation	Un-conjugated
Alternate Names	dis3p; EXOSC11; KIAA1008; 2810028N01Rik; Ribosomal RNA-processing protein 44; RRP44; EC 3.1.26.-; Exosome complex exonuclease RRP44; EC 3.1.13.-; Protein DIS3 homolog

Application Instructions

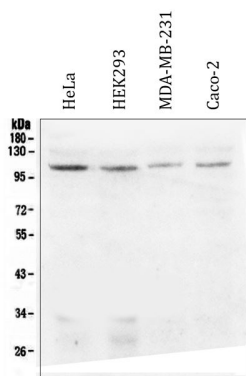
Application table	Application	Dilution
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na ₂ HPO ₄ , 0.9% NaCl, 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Gene Symbol	DIS3
Gene Full Name	DIS3 homolog, exosome endoribonuclease and 3'-5' exoribonuclease
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. [UniProt]
Calculated Mw	109 kDa
Cellular Localization	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). [UniProt]

Images



ARG43048 anti-DIS3 antibody WB image

Western blot: 50 µg of sample under reducing conditions. HeLa, HEK293, MDA-MB-231 and Caco-2 whole cell lysates stained with ARG43048 anti-DIS3 antibody at 0.5 µg/ml dilution, overnight at 4°C.