

Product datasheet

Anti-DIS3 antibody ab223767

[7 Images](#)

Overview

Product name	Anti-DIS3 antibody
Description	Rabbit polyclonal to DIS3
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB, ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Recombinant fragment corresponding to Human DIS3 aa 800-950. Database link: Q9Y2L1 Run BLAST with Run BLAST with
Positive control	IHC-P: Human testis, lymph node, cervix and cerebellum tissue. WB: U-87 MG, NIH/3T3 and NBT-II cell lysates. ICC/IF: U-2 OS cells.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.02% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab223767 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/50 - 1/200. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB		Use a concentration of 0.04 - 0.4 µg/ml. Predicted molecular weight: 109 kDa.
ICC/IF		Use a concentration of 0.25 - 2 µg/ml. Fixation/Permeabilization: PFA/Triton X-100.

Target

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 anti-sense 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.

Tissue specificity

Widely expressed.

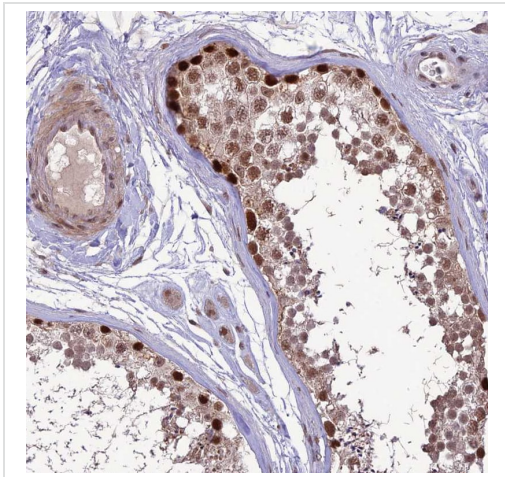
Sequence similarities

Belongs to the RNR ribonuclease family.
Contains 1 PINc domain.

Cellular localization

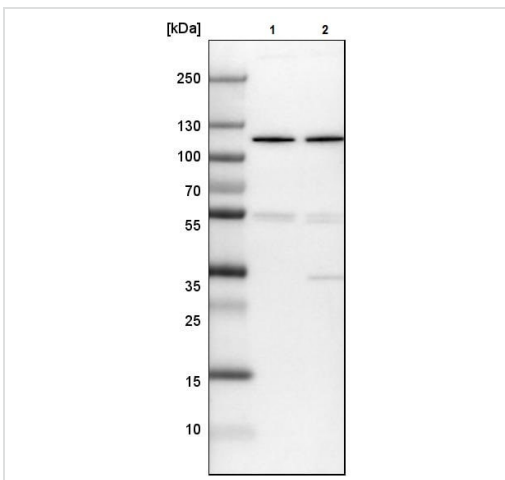
Cytoplasm. Nucleus > nucleolus. Nucleus > nucleoplasm. Nucleus. Predominantly located in the nucleus. According to PubMed:12429849, found in the nucleolus and according to PubMed:20531386, excluded from nucleolus supporting the existence of a nucleolar RNA exosome complex devoid of DIS3.

Images



Paraffin-embedded human testis tissue stained for DIS3 using ab223767 at 1/200 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DIS3 antibody (ab223767)



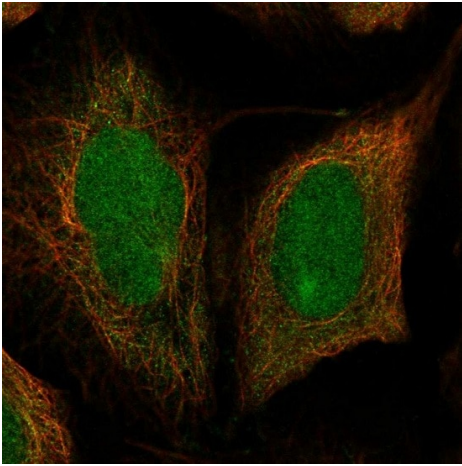
All lanes : Anti-DIS3 antibody (ab223767) at 1/100 dilution

Lane 1 : NIH/3T3 (mouse embryo fibroblast cell line) cell lysate

Lane 2 : NBT-II cell lysate

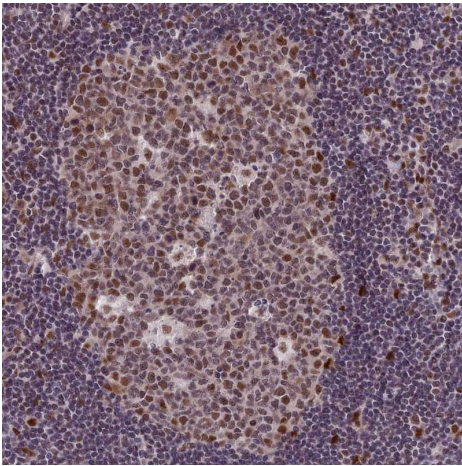
Predicted band size: 109 kDa

Western blot - Anti-DIS3 antibody (ab223767)



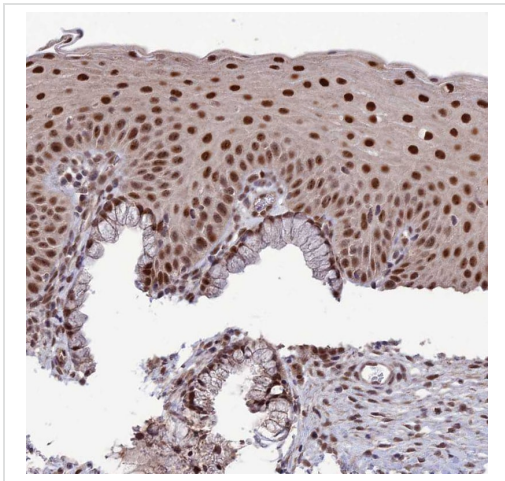
PFA-fixed, Triton X-100 permeabilized U-2 OS (human bone osteosarcoma epithelial cell line) cells stained for DIS3 (green) using ab223767 at 4 µg/ml in ICC.

Immunocytochemistry/ Immunofluorescence - Anti-DIS3 antibody (ab223767)



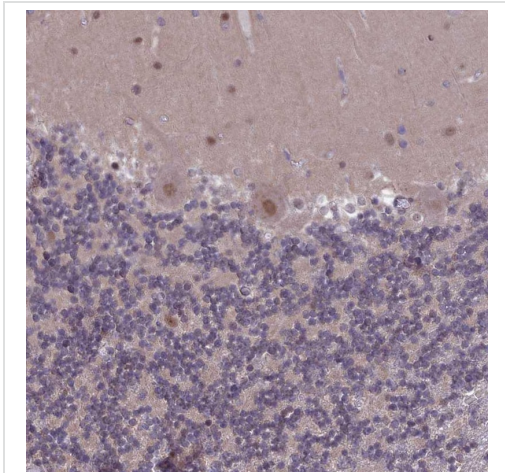
Paraffin-embedded human lymph node tissue stained for DIS3 using ab223767 at 1/200 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DIS3 antibody (ab223767)



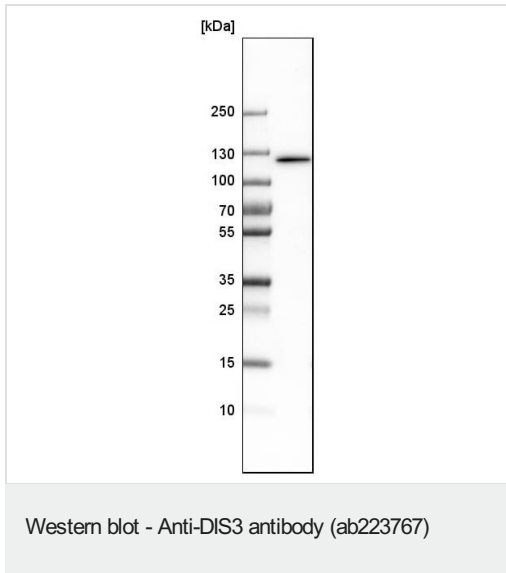
Paraffin-embedded human cervix tissue stained for DIS3 using ab223767 at 1/200 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DIS3 antibody (ab223767)



Paraffin-embedded human cerebellum tissue stained for DIS3 using ab223767 at 1/200 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DIS3 antibody (ab223767)



Anti-DIS3 antibody (ab223767) at 1/100 dilution + U-87 MG (human glioblastoma-astrocytoma epithelial cell line) cell lysate

Predicted band size: 109 kDa

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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