abcam

Product datasheet

Anti-EXOSC5/CML28 antibody ab168804

4 References 2 Images

Overview

Product name	Anti-EXOSC5/CML28 antibody
Description	Rabbit polyclonal to EXOSC5/CML28
Host species	Rabbit
Tested applications	**Suitable for:** WB, IP
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide corresponding to Human EXOSC5/CML28 aa 1-50. (Uniprot: Q9NQT4) Database link: **NP_064543.3**
Positive control	293T, HeLa and Jurkat cell lysates.
General notes	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. 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

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.
Storage buffer	pH: 7 Preservative: 0.09% Sodium azide Constituent: 99% Tris citrate/phosphate pH 7 to 8
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab168804 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
WB		1/2000 - 1/10000. Predicted molecular weight: 25 kDa.
IP		Use at 2-10 µg/mg of lysate.

Target

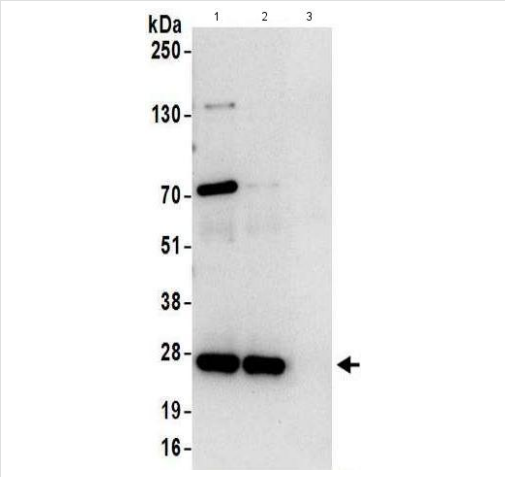
Function Non-catalytic component of the RNA exosome complex which has 3'->5' exoribonuclease activity and participates in a multitude of cellular RNA processing and degradation events. In the nucleus, the RNA exosome complex is involved in proper maturation of stable RNA species such as rRNA, snRNA and 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. The catalytic inactive RNA exosome core complex of 9 subunits (Exo-9) is proposed to play a pivotal role in the binding and presentation of RNA for ribonucleolysis, and to serve as a scaffold for the association with catalytic subunits and accessory proteins or complexes.

Tissue specificity Highly expressed in a variety of hematopoietic and epithelial tumor cell lines, but not in normal hematopoietic tissues or other normal tissue, with the exception of testis.

Sequence similarities Belongs to the RNase PH family.

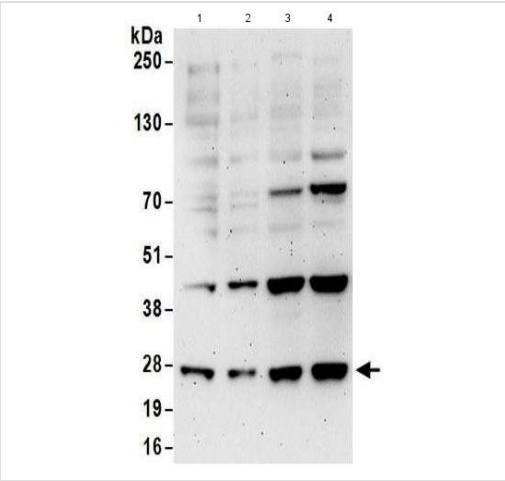
Cellular localization Nucleus > nucleolus. Cytoplasm. Nucleus.

Images



Immunoprecipitation - Anti-EXOSC5/CML28 antibody (ab168804)

Immunoprecipitation analysis of whole cell lysate (1 mg for IP; 20% of IP loaded) from 293T cells. 1) ab168804 (6 µg/mg lysate). 2) A rabbit anti-EXOSC5/CML28 antibody immunoprecipitated EXOSC5/CML28. 3) Control IgG. For blotting ab168804 was used at 1 µg/ml. Detection by chemiluminescence with an exposure time of 10 seconds.



Western blot - Anti-EXOSC5/CML28 antibody (ab168804)

All lanes : Anti-EXOSC5/CML28 antibody (ab168804) at 0.1 µg/ml

Lane 1 : 293T cell lysate at 50 µg
Lane 2 : 293T cell lysate at 15 µg
Lane 3 : HeLa cell lysate at 50 µg
Lane 4 : Jurkat cell lysate at 50 µg

Developed using the ECL technique.

Predicted band size: 25 kDa

Exposure time: 3 minutes

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