

Product datasheet

Anti-EXOSC5/CML28 antibody ab154718

4 Images

Overview

Product name	Anti-EXOSC5/CML28 antibody
Description	Rabbit polyclonal to EXOSC5/CML28
Host species	Rabbit
Tested applications	Suitable for: IHC-P, ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment corresponding to Human EXOSC5/CML28 aa 1-185. Database link: Q9NQT4
Positive control	HeLa cells; Human BT483 xenograft.
General notes	This product was previously labelled as EXOSC5

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.025% Proclin Constituents: PBS, 1% BSA, 20% Glycerol
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab154718** 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		1/100 - 1/1000.

Application	Abreviews	Notes
ICC/IF		1/100 - 1/1000.

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.

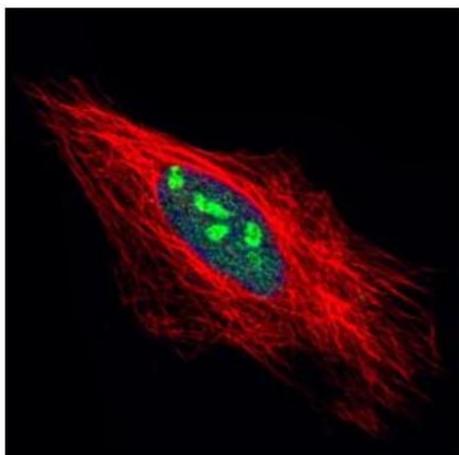
Sequence similarities

Belongs to the RNase PH family.

Cellular localization

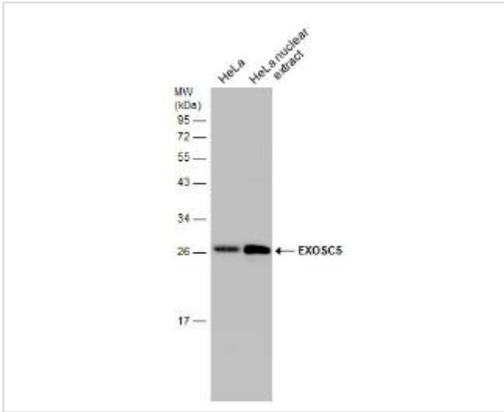
Nucleus > nucleolus. Cytoplasm. Nucleus.

Images



Immunofluorescent analysis of paraformaldehyde-fixed HeLa cells labeling EXOSC5/CML28 with ab154718 at 1/500 dilution (Green). Alpha-tubulin filaments were labeled red.

Immunocytochemistry/ Immunofluorescence - Anti-EXOSC5/CML28 antibody (ab154718)



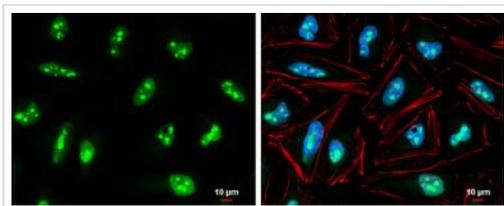
Western blot - Anti-EXOSC5/CML28 antibody (ab154718)

All lanes : Anti-EXOSC5/CML28 antibody (ab154718) at 1/1000 dilution

Lane 1 : HeLa whole cell lysate

Lane 2 : HeLa nuclear cell lysate

Lysates/proteins at 30 µg per lane.

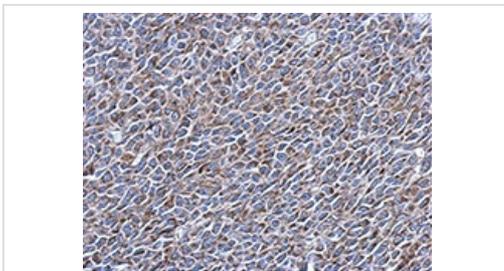


Immunocytochemistry/ Immunofluorescence - Anti-EXOSC5/CML28 antibody (ab154718)

Immunocytochemistry/ Immunofluorescence of HeLa cells staining EXOSC5/CML28 with ab154718 at 1/500. (green)

Phalloidin, a cytoskeleton marker, diluted at 1:100. (red)

Hoechst 33342 staining. (blue)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-EXOSC5/CML28 antibody (ab154718)

Immunohistochemical analysis of paraffin-embedded BT483 xenograft labeling EXOSC5/CML28 with ab154718 at 1/500 dilution.

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