abcam

Product datasheet

Anti-PARN antibody ab125185

1 References 4 Images

Overview

Product name	Anti-PARN antibody
Description	Rabbit polyclonal to PARN
Host species	Rabbit
Tested applications	**Suitable for:** WB, IP, IHC-P
Species reactivity	**Reacts with:** Mouse, Human **Predicted to work with:** Chimpanzee, Rhesus monkey, Orangutan
Immunogen	Synthetic peptide, corresponding to a region within amino acids 589-639 of Human PARN (NP_002573.1).
Positive control	WB: HeLa, Jurkat and 293T whole cell lysates. IP: HeLa cell lysate. IHC-P: Human breast carcinoma and mouse renal carcinoma tissues.
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. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
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 ab125185 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: 73 kDa.
IP		Use at 2-10 µg/mg of lysate.
IHC-P		1/500 - 1/2000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

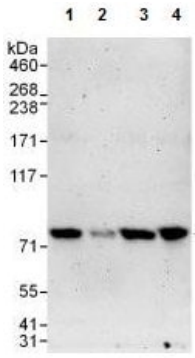
Function 3'-exoribonuclease that has a preference for poly(A) tails of mRNAs, thereby efficiently degrading poly(A) tails. Exonucleolytic degradation of the poly(A) tail is often the first step in the decay of eukaryotic mRNAs and is also used to silence certain maternal mRNAs translationally during oocyte maturation and early embryonic development. Interacts with both the 3'-end poly(A) tail and the 5'-end cap structure during degradation, the interaction with the cap structure being required for an efficient degradation of poly(A) tails. Involved in nonsense-mediated mRNA decay, a critical process of selective degradation of mRNAs that contain premature stop codons. Also involved in degradation of inherently unstable mRNAs that contain AU-rich elements (AREs) in their 3'-UTR, possibly via its interaction with KHSRP. Probably mediates the removal of poly(A) tails of AREs mRNAs, which constitutes the first step of destabilization.

Tissue specificity Ubiquitous.

Sequence similarities Belongs to the CAF1 family.
Contains 1 R3H domain.

Cellular localization Nucleus. Cytoplasm. Nucleus > nucleolus. Some nuclear fraction is nucleolar.

Images



Western blot - Anti-PARN antibody (ab125185)

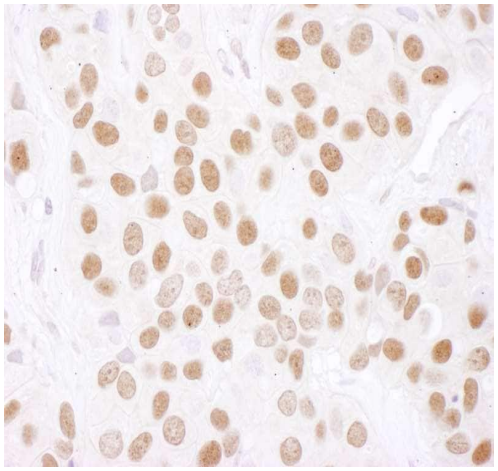
All lanes : Anti-PARN antibody (ab125185) at 0.1 µg/ml

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

Developed using the ECL technique.

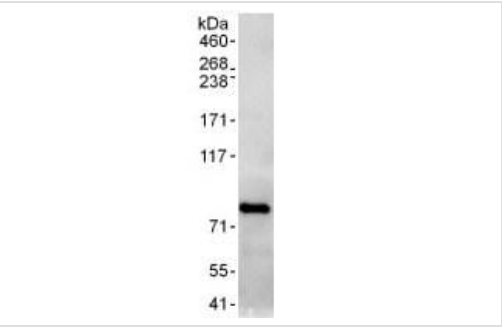
Predicted band size: 73 kDa

Exposure time: 3 minutes



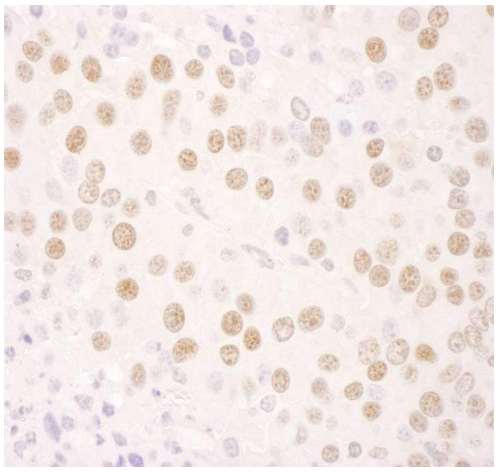
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PARN antibody (ab125185)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded human breast carcinoma tissue labeling PARN with ab125185 at a 1/1000 dilution.



Immunoprecipitation - Anti-PARN antibody (ab125185)

ab125185, at 6 µg/mg lysate, detecting PARN in HeLa cell lysate (1 mg of immunoprecipitate, 20% loaded in the lane) by Immunoprecipitation.
For the subsequent Western blot, ab125185 was used at 1 µg/ml. The blot was developed using the ECL technique, with an exposure time of 3 seconds.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PARN antibody (ab125185)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded mouse renal carcinoma tissue labeling PARN with ab125185 at a 1/1000 dilution.

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