abcam

ab250959

Anti-PARN antibody [EPR11670(2)] - BSA and Azide free

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR11670(2)
Purification technique	Affinity purification Protein A

Reactivity data

ICC/IF

Tested

Species	Human
Dilution info	-
Notes	-

Expected

Species	Rat, Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

WB

Tested

Species	Rat, Human
Dilution info	-
Notes	-

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Expected

Species	Rat, Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

IHC-P

Tested

Species	Mouse, Human
Dilution info	-
Notes	-

Expected

Species	Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

IP

Tested

Species	Human
Dilution info	-
Notes	-

Expected

Species	Rat, Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

Target data

See full target information PARN

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 (PubMed:10882133,

PubMed:11359775, PubMed:12748283, PubMed:15175153, PubMed:9736620). Also able to recognize and trim poly(A) tails of microRNAs such as MIR21 and H/ACA box snoRNAs (small nucleolar RNAs) leading to microRNAs degradation or snoRNA increased stability (PubMed:22442037, PubMed:25049417).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab250959 is the carrier-free version of ab188333.

Patented technology

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Conjugation ready

Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Compatibility

This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

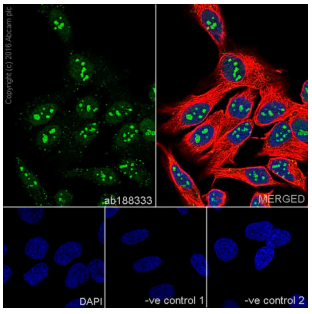
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

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8 product images

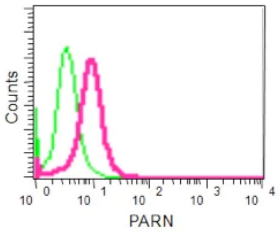


Immunocytochemistry/ Immunofluorescence - Anti-PARN antibody [EPR11670(2)] - BSA and Azide free (ab250959)

PARN Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-PARN antibody

This data was developed using ab188333, the same antibody clone in a different buffer formulation. Immunofluorescent analysis of HeLa cells labelling PARN with ab188333 at 1/500. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. ab150077, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody. The cells were co-stained with ab7291, a mouse anti-tubulin (1/1000) using ab150120, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/1000) as the secondary antibody. Nuclei counterstained with DAPI (blue).
Control 1: primary antibody (1/100) and secondary antibody, ab150120, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/500).

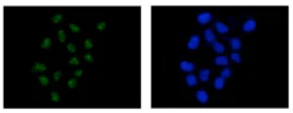
Control 2: ab7291 (1/1000) and secondary antibody, ab150077, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/500).



Flow Cytometry (Intracellular) - Anti-PARN antibody [EPR11670(2)] - BSA and Azide free (ab250959)

PARN Flow Cytometry (Intracellular) staining using rabbit Anti-PARN antibody

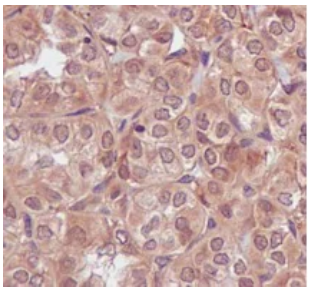
This data was developed using ab188333, the same antibody clone in a different buffer formulation.
Intracellular flow cytometric analysis of Hela cells fixed in 2% paraformaldehyde labeling PARN with ab188333 at 1/70 dilution and Goat anti rabbit IgG (FITC) at 1/150 dilution. Rabbit monoclonal IgG was used as an isotype control.



Immunocytochemistry/ Immunofluorescence - Anti-PARN antibody [EPR11670(2)] - BSA and Azide free (ab250959)

PARN Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-PARN antibody

This data was developed using ab188333, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of Hela cells fixed in 4% paraformaldehyde labeling PARN with ab188333 at 1/100 and Goat anti rabbit IgG (Alexa Fluor® 488) at 1/200 dilution. Counterstained with DAPI (blue).

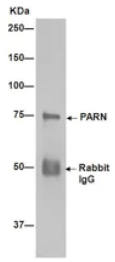


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PARN antibody [EPR11670(2)] - BSA and Azide free (ab250959)

PARN Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-PARN antibody

This data was developed using ab188333, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of formalin fixed paraffin embedded Human papillary adenocarcinoma of thyroid labeling PARN with ab188333 at 1/100 dilution and HRP polymer for Rabbit IgG. Counterstained with Haematoxylin.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

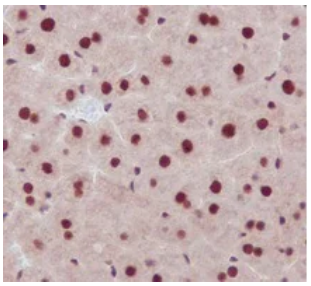


Immunoprecipitation - Anti-PARN antibody [EPR11670(2)] - BSA and Azide free (ab250959)

This data was developed using ab188333, the same antibody clone in a different buffer formulation.
Immunoprecipitation of K562 cell lysate labeling PARN with ab188333 at 1/50 dilution and Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution.

All lanes:
Immunoprecipitation - Anti-PARN antibody [EPR11670(2)] (ab188333)

Predicted band size: 73 kDa

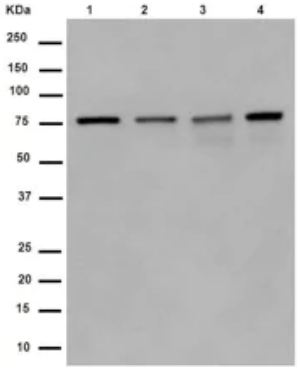


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PARN antibody [EPR11670(2)] - BSA and Azide free (ab250959)

PARN Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-PARN antibody

This data was developed using ab188333, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of formalin fixed paraffin embedded mouse liver labeling PARN with ab188333 at 1/100 dilution and HRP polymer for Rabbit IgG. Counterstained with Haematoxylin.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Western blot - Anti-PARN antibody [EPR11670(2)] - BSA and Azide free (ab250959)

This data was developed using ab188333, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-PARN antibody [EPR11670(2)] (ab188333) at 1/10000 dilution

Lane 1:
K562 cell lysate at 20 µg

Lane 2:
Hela cell lysate at 20 µg

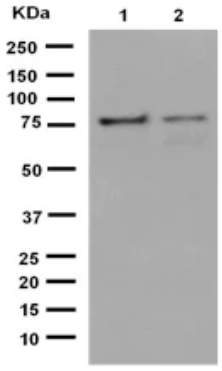
Lane 3:
HepG2 cell lysate at 20 µg

Lane 4:
MDA-MB-435 cell lysate at 20 µg

Secondary

All lanes:
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 73 kDa



Western blot - Anti-PARN antibody [EPR11670(2)] - BSA and Azide free (ab250959)

This data was developed using ab188333, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-PARN antibody [EPR11670(2)] (ab188333) at 1/1000 dilution

Lane 1:
PC-12 cell lysate at 10 µg

Lane 2:

NIH-3T3 cell lysate at 10 µg

Secondary

All lanes:
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 73 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.