abcam

ab190795

Anti-PWP1 antibody [EPR16131] - C-terminal

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR16131
Purification technique	Affinity purification Protein A
Concentration	0.911 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Rat
Dilution info	1/1000 - 1/10000
Notes	-

Species	Mouse

Dilution info	1/1000 - 1/10000
Notes	-

Species	Human
Dilution info	1/1000 - 1/10000
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/180
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	-

Target data

See full target information PWP1

Function	Chromatin-associated factor that regulates transcription (PubMed:29065309). Regulates Pol I-mediated rRNA biogenesis and, probably, Pol III-mediated transcription (PubMed:29065309). Regulates the epigenetic status of rDNA (PubMed:29065309).

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C

Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

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.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	The PWP1 protein also known as Periodic tryptophan protein 1 homolog is a 90 kDa nuclear protein that participates in the assembly of ribosomal subunits. It is predominantly expressed in the nucleolus and is part of the WD40 protein family characterized by repeating units that form a β-propeller structure. This structure facilitates its interaction with various molecular partners allowing it to play a role in ribosome biogenesis.
Biological function summary	PWP1 is involved in the nucleolar function and ribosome production. It acts as part of a multiprotein complex that assists in the maturation of pre-ribosomal particles. The protein contributes to the processing and assembly of ribosomal RNA ensuring proper ribonucleoprotein configuration. This function is especially important in regulating gene expression by controlling protein synthesis at the ribosomal level.
Pathways	PWP1 is a component of the ribosome biogenesis pathway which integrates its activity with other proteins such as NOP58 and RRP9. It is also linked to the RNA processing pathway where it interacts with other nucleolar proteins to ensure accurate RNA transcription and modification. These pathways are essential for maintaining cellular homeostasis and responding to growth signals impacting cell proliferation.

Associated diseases and disorders	PWP1's dysfunction has connections with cancer and disorders relating to ribosomal dysregulation. Aberrant expression or mutation of PWP1 may lead to disruptions in ribosomal biogenesis contributing to oncogenesis. The protein is associated with abnormal regulatory networks alongside proteins like NPM1 which also plays a role in tumorigenesis. Investigations into PWP1 offer insights into potential biomarkers and targets for therapeutic intervention in ribosome-related diseases.

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

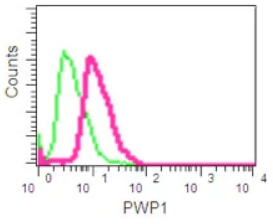
We do not recommend this combination. It is not covered by our product promise.

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.

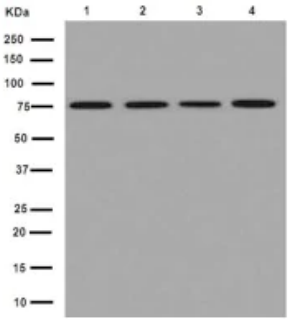
3 product images



Flow Cytometry (Intracellular) - Anti-PWP1 antibody [EPR16131] - C-terminal (ab190795)

PWP1 Flow Cytometry (Intracellular) staining using rabbit Anti-PWP1 antibody

Intracellular Flow Cytometry analysis of PWP1 expression in Jurkat cells using ab190795 at 1/180 dilution (red) and a rabbit IgG as negative control (green). A FITC-conjugated goat anti-rabbit IgG (1/150) was used as the secondary antibody.



Western blot - Anti-PWP1 antibody [EPR16131] - C-terminal (ab190795)

PWP1 Western blot staining using rabbit Anti-PWP1 antibody

All lanes:
Western blot - Anti-PWP1 antibody [EPR16131] - C-terminal (ab190795) at 1/10000 dilution

Lane 1:
293 cell lysate at 10 µg

Lane 2:
Jurkat cell lysate at 10 µg

Lane 3:
HepG2 cell lysate at 10 µg

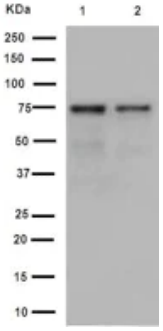
Lane 4:
Hela cell lysate at 10 µg

Secondary

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

Predicted band size: 56 kDa

Observed band size: 79 kDa



Western blot - Anti-PWP1 antibody [EPR16131] - C-terminal (ab190795)

PWP1 Western blot staining using rabbit Anti-PWP1 antibody

All lanes:
Western blot - Anti-PWP1 antibody [EPR16131] - C-terminal (ab190795) at 1/1000 dilution

Lane 1:
C6 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: 56 kDa

Observed band size: 79 kDa

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