abcam

ab150356

Anti-PPWD1 antibody [EPR7439]

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	EPR7439
Purification technique	Affinity purification Protein A
Concentration	2.181 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Not recommended

Species	Mouse, Human, Rat
Dilution info	-
Notes	-

WB

Tested

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

Species	Mouse
Dilution info	1/1000 - 1/100000
Notes	-

Predicted

Species	Rat
Dilution info	-
Notes	-

IHC-P

Not recommended

Species	Mouse, Human, Rat
Dilution info	-
Notes	-

ICC/IF

Not recommended

Species	Mouse, Human, Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human

Dilution info	1/100 - 1/500
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Expected

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

Predicted

Species	Rat
Dilution info	-
Notes	-

Target data

See full target information PPWD1

Function	PPIase that catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides and may therefore assist protein folding (PubMed:20676357). May be involved in pre-mRNA splicing (PubMed:11991638).

Storage

Shipped at conditions	Conditional Ambient
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 protein of interest PPWD1 also known as Peptidylprolyl isomerase domain and WD repeat-containing protein 1 is a part of the cyclophilin family. This protein has a molecular mass of approximately 105 kDa. It is expressed in a variety of tissues including liver and brain. Mechanically PPWD1 functions as a peptidylprolyl isomerase a type of enzyme that catalyzes the cis-trans isomerization of proline residues in peptides and proteins. This action assists in protein folding which is a critical process for proper cellular function.
Biological function summary	PPWD1 plays a fundamental role in the splicing of pre-mRNA by being a part of the spliceosome complex. This complex is essential for the accurate removal of introns from pre-mRNA therefore shaping the final mRNA transcript that gets translated into protein. The WD40 repeat in PPWD1 helps in mediating protein-protein interactions which is vital for its function in the spliceosome complex. This ensures that PPWD1 interacts efficiently with other spliceosomal components facilitating correct splicing.
Pathways	PPWD1 participates in RNA processing pathways particularly focused on mRNA splicing. It acts in the spliceosomal complex with proteins like snRNPs and various other splicing factors regulating the splicing events. PPWD1 is also linked to pathways governing cellular responses to signals due to its role in managing the diversity of protein products derived from alternative splicing events. This protein influences the pathway in coordination with others such as SFRS1 affecting how cells adapt to signaling changes.
Associated diseases and disorders	PPWD1 has associations with cancer and neurodegenerative diseases. It relates to cancer due to its role in alternative splicing which can affect oncogene expression and tumor suppressor genes promoting disease development. In neurodegenerative disorders PPWD1's malfunction may impact neuron-specific gene splicing linking it to diseases like Alzheimer's. Proteins like p53 and tau might interact with splicing regulators including PPWD1 in these contexts underlining its potential involvement in disease pathogenesis.

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.

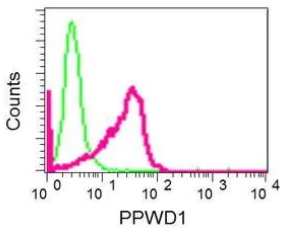
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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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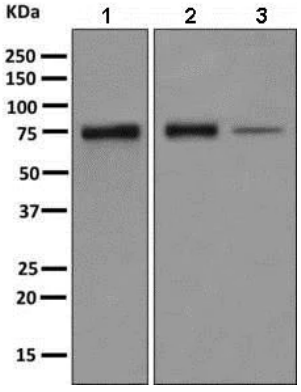
2 product images



Flow Cytometry (Intracellular) - Anti-PPWD1 antibody [EPR7439] (ab150356)

PPWD1 Flow Cytometry (Intracellular) staining using rabbit Anti-PPWD1 antibody

Intracellular flow cytometrical analysis of permeabilized HeLa cells with ab150356 antibody at a dilution of 1/100 (red) or a rabbit IgG (negative) (green).



Western blot - Anti-PPWD1 antibody [EPR7439] (ab150356)

All lanes:
Western blot - Anti-PPWD1 antibody [EPR7439] (ab150356) at 1/1000 dilution

Lane 1:
HeLa cell lysate at 10 µg

Lane 2:
NIH3T3 cell lysate at 10 µg

Lane 3:
293T cell lysate at 10 µg

Secondary

All lanes:
HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 74 kDa

Observed band size: 74 kDa

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