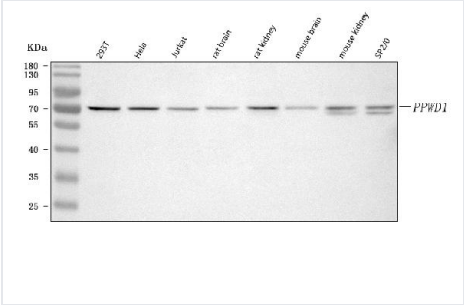
PPWD1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

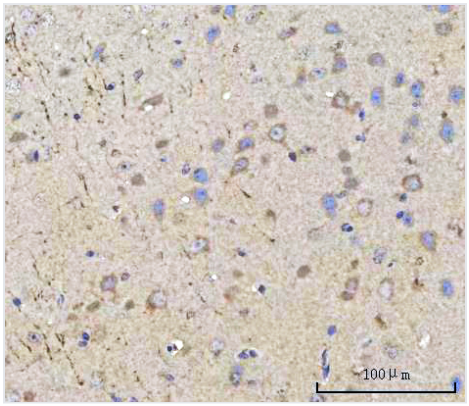
Product Name	PPWD1, Polyclonal Antibody
Full Product Name	Anti-PPWD1 Antibody Picoband
Product Gene Name	anti-PPWD1 antibody
Product Synonym Names	eva-1 homolog A, regulator of programmed cell death; Protein eva-1 homolog A; Protein FAM176A; Transmembrane protein 166; EVA1A; FAM176A; TMEM166; SP24
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Purity/Purification	Immunogen affinity purified.
Specificity	Expressed in lung, kidney, liver, pancreas, placenta, but not in heart and skeletal muscle.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.
Molecular Weight	55,700 Da
3D Structure	ModBase 3D Structure for Q96BP3
Immunogen	E coli-derived human PPWD1 recombinant protein (Position: D188-N529).
Subcellular Localization	Endoplasmic reticulum membrane, Single-pass membrane protein, Lysosome membrane
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Acts as a regulator of programmed cell death, mediating both autophagy and apoptosis.
Product Categories/Family for anti-PPWD1 antibody	Primary Antibodies; Cell Biology; Proteasome/Ubiquitin; Proteolysis/Ubiquitin; Ubiquitin E3 Enzymes
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-PPWD1 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunofluorescence (IF), Flow Cytometry (FC/FACS), ELISA (EIA)
Application Notes for anti-PPWD1 antibody	WB: 0.25-0.5ug/ml, Human, Mouse, Rat IHC(Paraffin-embedded Section): 2-5ug/ml, Mouse, Rat ICC/IF: 5ug/ml, Human FC/FACS (Fixed): 1-3ug/1x10^6 cells, Human ELISA: 0.1-0.5ug/ml
Related Product Information for anti-PPWD1 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product References and Citations for anti-PPWD1 antibody	1. Davis, T. L., Walker, J. R., Campagna-Slater, V., Finerty, P. J., Jr., Paramanathan, R., Bernstein, G., MacKenzie, F., Tempel, W., Ouyang, H., Lee, W. H., Eisenmesser, E. Z., Dhe-Paganon, S. Structural and biochemical characterization of the human cyclophilin family of peptidyl-prolyl isomerases. PLoS Biol. 8: e1000439, 2010. Note: Electronic Article.2. Davis, T. L., Walker, J. R., Ouyang, H., MacKenzie, F., Butler-Cole, C., Newman, E. M., Eisenmesser, E. Z., Dhe-Paganon, S. The crystal structure of human WD40 repeat-containing peptidylprolyl isomerase (PPWD1). FEBS J. 275: 2283-2295, 2008. 3. Gross, M. B. Personal Communication. Baltimore, Md. 1/7/2019.
Other Notes	Small volumes of anti-PPWD1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PPWD1 purchase	MBS1759238 is an antibody targeting PPWD1. Also known as Anti-PPWD1 Antibody Picoband. Reactive in Human, Mouse, Rat. Host: Rabbit.



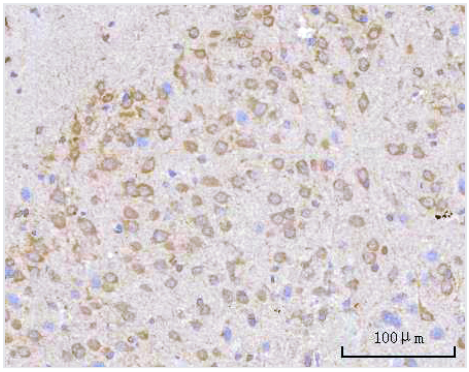
Western Blot (WB) of anti-PPWD1 antibody

Figure 1. Western blot analysis of PPWD1 using anti-PPWD1 antibody (MBS1759238).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human 293T whole cell lysates,Lane 2: human Hela whole cell lysates,Lane 3: human Jurkat whole cell lysates,Lane 4: rat brain tissue lysates,Lane 5: rat kidney tissue lysates,Lane 6: mouse brain tissue lysates,Lane 7: mouse kidney tissue lysates,Lane 8: mouse SP2/0 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-PPWD1 antigen affinity purified polyclonal antibody (#MBS1759238) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (#MBS176460) with Tanon 5200 system. A specific band was detected for PPWD1 at approximately 70 kDa. The expected band size for PPWD1 is at 70 kDa.



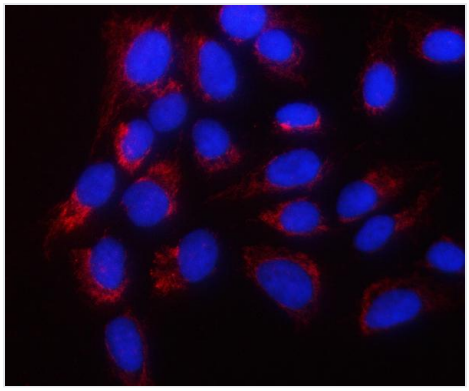
Immunohistochemistry (IHC) of anti-PPWD1 antibody

Figure 2. IHC analysis of PPWD1 using anti-PPWD1 antibody (MBS1759238).PPWD1 was detected in a paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-PPWD1 Antibody (MBS1759238) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (#MBS176453) with DAB as the chromogen.



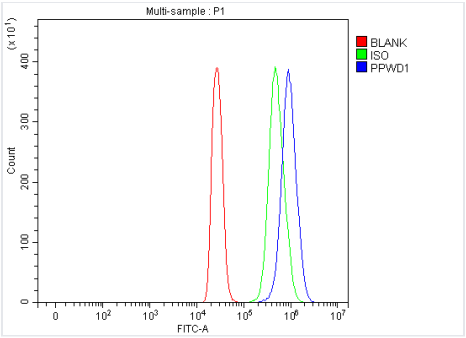
Immunohistochemistry (IHC) of anti-PPWD1 antibody

Figure 3. IHC analysis of PPWD1 using anti-PPWD1 antibody (MBS1759238).PPWD1 was detected in a paraffin-embedded section of rat brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-PPWD1 Antibody (MBS1759238) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (#MBS176453) with DAB as the chromogen.



Immunofluorescence (IF) of anti-PPWD1 antibody

Figure 4. IF analysis of PPWD1 using anti-PPWD1 antibody (MBS1759238).PPWD1 was detected in an immunocytochemical section of U2OS cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (#MBS176582) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-PPWD1 Antibody (MBS1759238) overnight at 4 degree C. DyLight550 Conjugated Goat Anti-Rabbit IgG (BA1135) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



Flow Cytometry (FC/FACS) of anti-PPWD1 antibody

Figure 5. Flow Cytometry analysis of 293T cells using anti-PPWD1 antibody (MBS1759238).Overlay histogram showing 293T cells stained with MBS1759238 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PPWD1 Antibody (MBS1759238, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (MBS177405, 5-10ug/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PPWD1. It may not necessarily be applicable to this product.

NCBI GI #	24308049
NCBI GeneID	23398
NCBI Accession #	NP_056157
UniProt Primary Accession #	Q96BP3
UniProt Secondary Accession #	Q15002; Q7KZ89; B4DWR9
UniProt Related Accession #	Q96BP3
GenBank Nucleotide #	NM_015342
NCBI Official Full Name	peptidylprolyl isomerase domain and WD repeat-containing protein 1 isoform 1
NCBI Official Synonym Full Names	peptidylprolyl isomerase domain and WD repeat containing 1
NCBI Official Symbol	PPWD1
UniProt Protein Name	Peptidylprolyl isomerase domain and WD repeat-containing protein 1
UniProt Synonym Protein Names	Spliceosome-associated cyclophilin
Protein Family	Peptidylprolyl isomerase domain and WD repeat-containing protein
UniProt Gene Name	PPWD1
UniProt Synonym Gene Names	KIAA0073
UniProt Entry Name	PPWD1_HUMAN
NCBI Protein Information	peptidylprolyl isomerase domain and WD repeat-containing protein 1; spliceosome-associated cyclophilin
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