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# PPT1 Antibody (C-term)

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM2265b

## Product Information

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|---|---|
| **Application** | WB, FC, IHC-P, E |
| **Primary Accession** | P50897 |
| **Reactivity** | Human |
| **Predicted** | Mouse, Rat, Bovine, Canine, Rabbit |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Isotype** | IgG1 |
| **Clone Names** | 1117CT11.2.1.4 |
| **Calculated MW** | 34193 |
| **Antigen Region** | 1-306 |

## Additional Information

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|---|---|
| **Gene ID** | 5538 |
| **Other Names** | Palmitoyl-protein thioesterase 1, PPT-1, Palmitoyl-protein hydrolase 1, PPT1, PPT |
| **Target/Specificity** | This PPT1 antibody is generated from a mouse immunized with a full-length recombinant protein from human PPT1. |
| **Dilution** | WB~~1:1000 FC~~1:25 IHC-P~~1:100~500 E~~Use at an assay dependent concentration. |
| **Format** | Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | PPT1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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|---|---|
| **Name** | PPT1 |
| **Synonyms** | CLN1 {ECO:0000303\|PubMed:19941651}, PPT |
| **Function** | Has thioesterase activity against fatty acid thioesters with 14 -18 carbons, |

| | |
|---|---|
| | including palmitoyl-CoA, S-palmitoyl-N- acetylcysteamine, and palmitoylated proteins (PubMed:12855696, PubMed:26731412, PubMed:8816748). In contrast to PPT2, PPT1 can hydrolyze palmitoylated proteins and palmitoylcysteine (PubMed:12855696). |
| **Cellular Location** | Lysosome. Secreted Golgi apparatus. Endoplasmic reticulum |

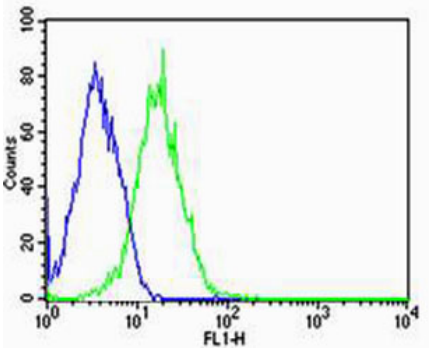
## Background

Removes thioester-linked fatty acyl groups such as palmitate from modified cysteine residues in proteins or peptides during lysosomal degradation. Prefers acyl chain lengths of 14 to 18 carbons.

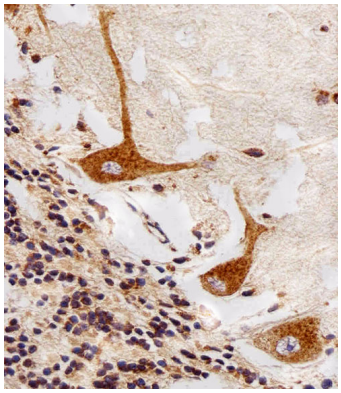
## References


Vesa J.,et al.Nature 376:584-587(1995).
Crews C.M.,et al.Proc. Natl. Acad. Sci. U.S.A. 93:4316-4319(1996).
Schriner J.E.,et al.Genomics 34:317-322(1996).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Ebert L.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.


## Images

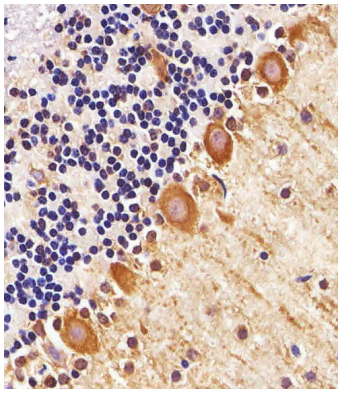


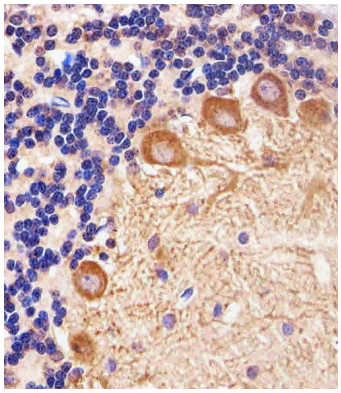

Flow cytometric analysis of HepG2 cells using PPT1 Antibody (C-term)(green, Cat#AM2265b) compared to an isotype control of mouse IgG1(blue). AM2265b was diluted at 1:25 dilution. An Alexa Fluor® 488 goat anti-mouse lgG at 1:400 dilution was used as the secondary antibody.



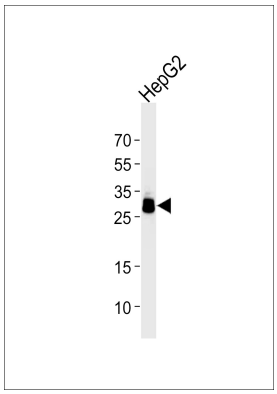
Immunohistochemical analysis of paraffin-embedded H. cerebellum section using PPT1 Antibody (C-term)(Cat#AM2265b). AM2265b was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.

Immunohistochemical analysis of paraffin-embedded M. cerebellum section using PPT1 Antibody (C-term)(Cat#AM2265b). AM2265b was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.





Immunohistochemical analysis of paraffin-embedded R. cerebellum section using PPT1 Antibody (C-term)(Cat#AM2265b). AM2265b was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.




Western blot analysis of lysate from HepG2 cell line using PPT1 Antibody (C-term) (Cat. # AM2265b). AM2265b was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L(HRP) at 1:3000 dilution was used as the secondary antibody. Lysate at 35µg per lane.

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