10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PPT1 Antibody (C-term)

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM2265b

Product Information

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

Additional Information

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

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

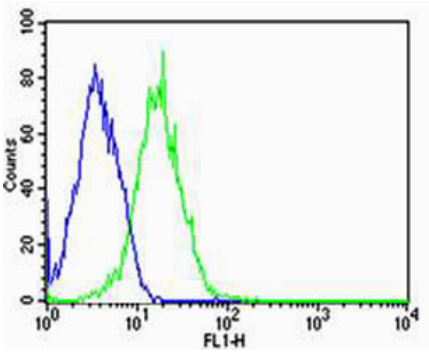
Background

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.

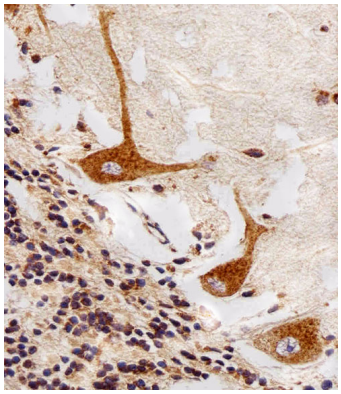
References

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

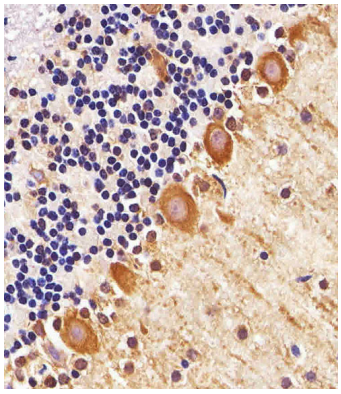


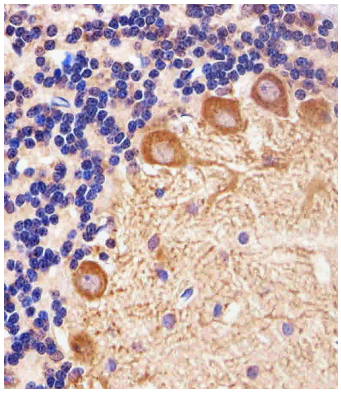
Flow cytometric analysis of HepG2 cells using PPT1 Antibody (C-term)(green, Cat#AM2265b) compared to an isotype control of mouse IgG1(blue). AM2265b was diluted at 1:25 dilution. An Alexa Fluor® 488 goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody.



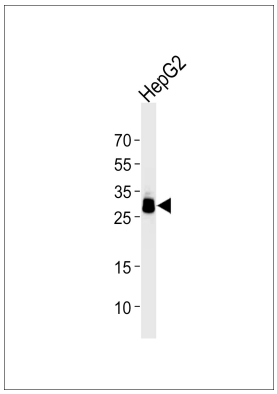
Immunohistochemical analysis of paraffin-embedded H. cerebellum section using PPT1 Antibody (C-term)(Cat#AM2265b). AM2265b was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.

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.