

anti-Human, Rat PPT1 Polyclonal Antibody | anti-PPT1 antibody

Anti-PPT1 Antibody

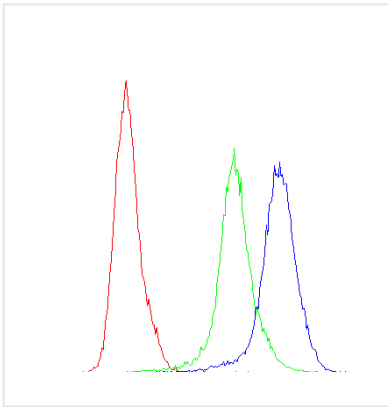
CATALOG # AAA46438	REACTIVITY Human, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

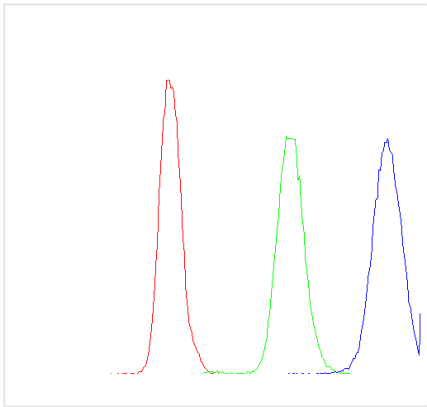
PPT1; Polyclonal Antibody; Anti-PPT1 Antibody; Palmitoyl-protein thioesterase 1; Ceroid palmitoyl palmitoyl protein thioesterase 1; CLN1; EC 3.1.2.22; INCL; Palmitoyl protein hydrolase 1; Palmitoyl protein thioesterase 1; Palmitoyl-protein hydrolase 1; PPT; PPT-1; PPT1_HUMAN; palmitoyl-protein thioesterase 1; anti-PPT1 antibody

PRODUCT SPECIFICATIONS

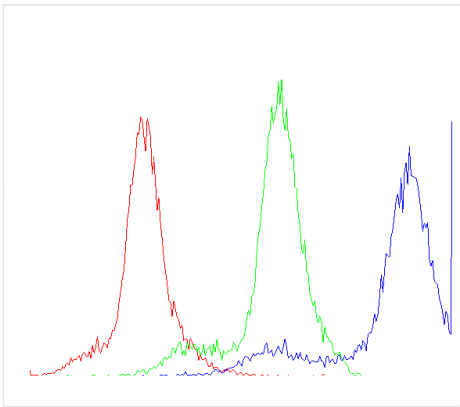
Reactivity	Human, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Sequence Length	306
Applicable Applications for anti-PPT1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human PPT1 (191-224aa KEDVYRNHSIFLADINQERGINESYKKNLMAKK), different from the related mouse and rat sequences by four amino acids.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



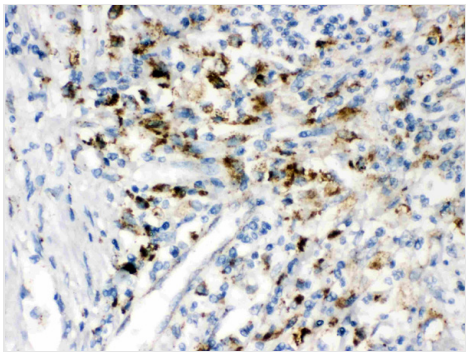
FCM/FACS (Flow Cytometry)
Figure 5. Flow Cytometry analysis of THP-1 cells using anti-PPT1 antibody (AAA46438).Overlay histogram showing THP-1 cells stained with AAA46438 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PPT1 Antibody (AAA46438,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (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.



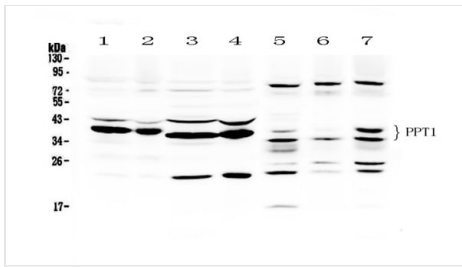
FCM/FACS (Flow Cytometry)
Figure 4. Flow Cytometry analysis of SiHa cells using anti-PPT1 antibody (AAA46438).Overlay histogram showing SiHa cells stained with AAA46438 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PPT1 Antibody (AAA46438,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (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.



FCM/FACS (Flow Cytometry)
Figure 3. Flow Cytometry analysis of U937 cells using anti-PPT1 antibody (AAA46438).Overlay histogram showing U937 cells stained with AAA46438 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PPT1 Antibody (AAA46438,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (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.



IHC (Immunohiostchemistry)
Figure 2. IHC analysis of PPT1 using anti- PPT1 antibody (AAA46438).PPT1 was detected in paraffin-embedded section of human intestinal cancer tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti- PPT1 Antibody (AAA46438) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)
 Figure 1. Western blot analysis of PPT1 using anti- PPT1 antibody (AAA46438). 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 50ug of sample under reducing conditions. Lane 1: rat brain tissue lysates, Lane 2: mouse brain tissue lysates, Lane 3: rat liver tissue lysates, Lane 4: mouse liver tissue lysates, Lane 5: HEPG2 whole Cell lysates, Lane 6: 293T whole cell lysates, Lane 7: MCF-7 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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- PPT1 antigen affinity purified polyclonal antibody 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 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for PPT1.

ADDITIONAL INFORMATION

Related Product Information for anti-PPT1 antibody	Description: Rabbit IgG polyclonal antibody for Palmitoyl-protein thioesterase 1(PPT1) detection. Tested with WB, IHC-P in Human;Rat. Background: Palmitoyl-protein thioesterase 1 (PPT-1), also known as palmitoyl-protein hydrolase 1, is an enzyme that in humans is encoded by the PPT1 gene. PPT-1 is a member of the palmitoyl protein thioesterase family. The protein encoded by this gene is a small glycoprotein involved in the catabolism of lipid-modified proteins during lysosomal degradation. The encoded enzyme removes thioester-linked fatty acyl groups such as palmitate from cysteine residues. Defects in this gene are a cause of infantile neuronal ceroid lipofuscinosis 1 (CLN1, or INCL) and neuronal ceroid lipofuscinosis 4 (CLN4). Two transcript variants encoding different isoforms have been found for this gene.
References	1. "Entrez Gene: palmitoyl-protein thioesterase 1". 2. Hellsten E, Vesa J, Speer MC, Mäkelä TP, Järvelä I, Alitalo K, Ott J, Peltonen L (June 1993). "Refined assignment of the infantile neuronal ceroid lipofuscinosis (INCL, CLN1) locus at 1p32: incorporation of linkage disequilibrium in multipoint analysis". Genomics 16 (3): 720-5. 3. Vesa J, Hellsten E, Verkruyse LA, Camp LA, Rapola J, Santavuori P, Hofmann SL, Peltonen L (August 1995). "Mutations in the palmitoyl protein thioesterase gene causing infantile neuronal ceroid lipofuscinosis". Nature 376 (6541): 584-7.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4506031
NCBI GeneID	5538
NCBI Accession #	NP_000301.1
NCBI GenBank Nucleotide #	NM_000310.3
UniProt Accession #	P50897; Q6FGQ4; B4DY24
Molecular Weight	23,094 Da
NCBI Official Full Name	palmitoyl-protein thioesterase 1 isoform 1
NCBI Official Synonym Full Names	palmitoyl-protein thioesterase 1
NCBI Official Symbol	PPT1
NCBI Official Synonym Symbols	PPT; CLN1; INCL

NCBI Protein Information	palmitoyl-protein thioesterase 1
UniProt Protein Name	Palmitoyl-protein thioesterase 1
UniProt Gene Name	PPT1
UniProt Synonym Gene Names	PPT; PPT-1
UniProt Entry Name	PPT1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/polyclonal/ppt1-antibody-immunohistochemistry-western-blot-elisa/46438>