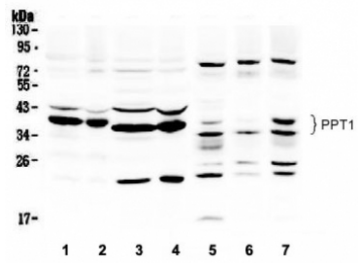
PPT1 Antibody (R32123)

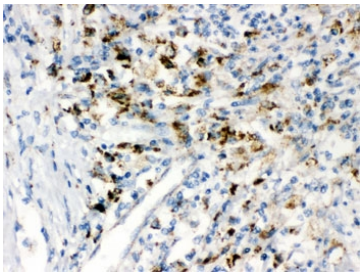
Catalog No.	Formulation	Size
R32123	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

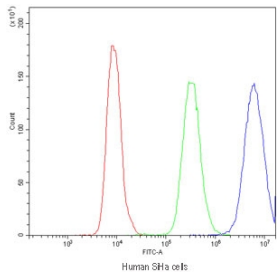
Availability	1-3 business days
Species Reactivity	Human, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	P50897
Localization	Cytoplasmic
Applications	Western Blot : 0.1-0.5ug/ml IHC (FFPE) : 0.5-1ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This PPT1 antibody is available for research use only.



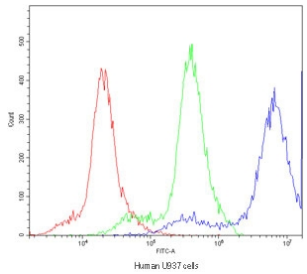
Western blot testing of 1) rat brain, 2) mouse brain, 3) rat liver, 4) mouse liver, 5) human HepG2, 6) human 293T and 7) MCF-7 lysate with PPT1 antibody. Expected/observed molecular weight ~34 kDa.



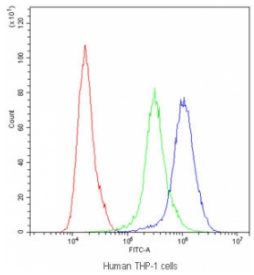
IHC testing of FFPE human intestinal cancer tissue with PPT1 antibody. HIER: Boil the paraffin sections in pH 6, 10mM citrate buffer for 20 minutes and allow to cool prior to staining.



Flow cytometry testing of human SiHa cells with PPT1 antibody at 1ug/10^6 cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue=PPT1 antibody.



Flow cytometry testing of human U937 cells with PPT1 antibody at 1ug/10^6 cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue=PPT1 antibody.



Flow cytometry testing of human THP-1 cells with PPT1 antibody at 1ug/10^6 cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue=PPT1 antibody.

Description

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.

Application Notes

Optimal dilution of the PPT1 antibody should be determined by the researcher.

Immunogen

Amino acids KEDVYRNHSIFLADINQERGINESYKKNLMALKK of human PPT1 were used as the immunogen for the PPT1 antibody.

Storage

After reconstitution, the PPT1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.