

PPT2 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP54616

Specification

PPT2 Polyclonal Antibody - Product Information

Application WB, IHC-P, IHC-F, IF, ICC, E

Primary Accession Q9UMR5

Reactivity Rat, Pig, Dog, Bovine

Host Rabbit
Clonality Polyclonal
Calculated MW 31 KDa
Physical State Liquid

Immunogen KLH conjugated synthetic peptide derived

from human PPT2

Epitope Specificity 221-302/302

Isotype IgG
Purity

0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Lysosome.

SIMILARITY Belongs to the palmitoyl-protein

thioesterase family.

Important Note

This product as supplied is intended for research use only, not for use in human,

therapeutic or diagnostic applications.

Background Descriptions

affinity purified by Protein A

Buffer

PPT2 (palmitoyl-protein thioesterase 2), also known as G14, is a 302 amino acid glycosylated protein that localizes to the lysosome and belongs to the palmitoyl-protein thioesterase family. Expressed throughout the body with highest levels in skeletal muscle, PPT2 functions to remove thioester-linked fatty acyl groups from a variety of substrates, including S-palmitoyl-CoA, thereby playing an important role in lipid metabolism. PPT2 operates at an optimal pH of 7 and exhibits the highest activity for the acyl groups on myristic and palmitic acids, with lower levels of activity toward other short- and long-chain acyl substrates. PPT2 exists as two isoforms, one of which is expressed at low levels and is catalytically inactive.

PPT2 Polyclonal Antibody - Additional Information

Gene ID 9374

Other Names

Lysosomal thioesterase PPT2, PPT-2, 3.1.2.-, S-thioesterase G14, PPT2

Target/Specificity

Broadly expressed, with highest levels in skeletal muscle.

Dilution



WB~~1:1000<br \><span class
="dilution_IHC-P">IHC-P~~N/A<br \><span class
="dilution_IHC-F">IHC-F~~N/A<br \><span class
="dilution_IF">IF~~1:50~200<br \>ICC~~N/A<br \>ICC~~N/A<br \>ICC~~N/A

Storage

Store at -20 $^{\circ}$ C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 $^{\circ}$ C.

PPT2 Polyclonal Antibody - Protein Information

Name PPT2 (HGNC:9326)

Function

Catalyzes the cleavage of thioester bonds from S-palmitoyl- CoA or S-palmitoyl-N-acetylcysteamine (unbranched structures) but does not have activity against palmitoylcysteine or palmitoylated proteins, branched structures or bulky head groups. Conversely, hydrolyzes both long and short chain fatty acyl-CoA substrate.

Cellular Location

Lysosome.

Tissue Location

Broadly expressed, with highest levels in skeletal muscle.

PPT2 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PPT2 Polyclonal Antibody - Images