

PLIN5 Rabbit Polyclonal Antibody

PLIN5 Rabbit Polyclonal Antibody Catalog # AP93514

Product Information

Application WB Primary Accession Q00G26

Reactivity Human, Mouse **Host** Polyclonal, Rabbit,IgG

Clonality Polyclonal Calculated MW 50791

Additional Information

Gene ID 440503

Other Names Perilipin-5, Lipid storage droplet protein 5, PLIN5, LSDP5, OXPAT, PAT-1

Dilution WB~~1:1000

Storage Conditions -20°C

Protein Information

Name PLIN5

Synonyms LSDP5, OXPAT, PAT-1

Function Lipid droplet-associated protein that maintains the balance between

lipogenesis and lipolysis and also regulates fatty acid oxidation in oxidative tissues. Recruits mitochondria to the surface of lipid droplets and is involved in lipid droplet homeostasis by regulating both the storage of fatty acids in the form of triglycerides and the release of fatty acids for mitochondrial fatty acid oxidation. In lipid droplet triacylglycerol hydrolysis, plays a role as a scaffolding protein for three major key lipolytic players: ABHD5, PNPLA2 and LIPE. Reduces the triacylglycerol hydrolase activity of PNPLA2 by recruiting and sequestering PNPLA2 to lipid droplets. Phosphorylation by PKA enables lipolysis probably by promoting release of ABHD5 from the perilipin scaffold and by facilitating interaction of ABHD5 with PNPLA2. Also increases lipolysis through interaction with LIPE and upon PKA-mediated phosphorylation of

LIPE (By similarity).

Cellular Location Lipid droplet. Cytoplasm {ECO:0000250 | UniProtKB:Q8BVZ1}. Mitochondrion

{ECO:0000250|UniProtKB:M0R7Z9}. Note=Lipid droplet surface-associated

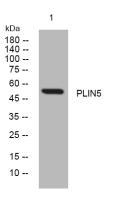
Exchanges between lipid droplets and the cytoplasm

{ECO:0000250 | UniProtKB:Q8BVZ1}

Background

Members of the perilipin family, such as PLIN5, coat intracellular lipid storage droplets and protect them from lipolytic degradation (Dalen et al., 2007 [PubMed 17234449]).[supplied by OMIM, Feb 2010],

Images



Western blot analysis of lysates from K562 cells, primary antibody was diluted at 1:1000, 4° over night

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