Anti-Perilipin 2

Catalog No. 651102
Quantity 5 mL

Source mouse monoclonal IgG1
Clone AP 125
Immunogen synthetic peptide (aa 5-27 from N-terminus of human adipophilin/ PLIN2)
UniProt ID Q99541
Reactivity human, rat, dog;
negative with bovine, mouse
Purification hybridoma culture supernatant
Conjugate unconjugated
Formulation contains 0.09% sodium azide
Storage short term at 2 – 8 °C; long term storage in aliquots at -20 °C; avoid freeze/thaw cycles

Tested Applications
IHC (FFPE) ready-to-use (microwave treatment recommended)
IHC (frozen) ready-to-use
WB assay dependent

Background
Perilipin 2/ Adipophilin/ ADRP/ PLIN2 is a ubiquitous component of lipid droplets. It has been found in milk fat globule membranes and on the surface of lipid droplets in various cultured cell lines; inducible by etomoxir.

Enhanced expression of Perilipin 2/ Adipophilin/ ADRP/ PLIN2 is a useful marker for pathologies characterized by increased lipid droplet accumulation. Such diseases include atheroma, steatosis, obesity and certain cases of liposarcoma. It also seems to be a potent marker for atherosclerosis. ADRP can also be used to study virus entry via lipid droplets.

Polypeptide reacting: Perilipin 2/ Adipophilin/ ADRP/ PLIN2, MW 48,100 (calculated from aa sequence data); apparent Mr 52,000 (after SDS-PAGE); pl 6.72

Immunolocalization: Perilipin 2/ Adipophilin/ PLIN2 is positively detected in the glandular cells of lactating mammary gland (ductal cells are negative), zona fasciculata of the adrenal gland, Sertoli cells of the testis, and in fat-accumulating hepatocytes of alcoholic cirrhotic fatty liver; adipocytes are negative. Also positively stained are lipid-storing CD 68-positive macrophages.
Tested cultured cell lines: Caco, PLC, HaCat, SV80, RD 125, HUVEC, RV, PC-12, MDCK

References
16. Bulankina, A. V. TIP47 is recruited to lipid droplets and important for the organelle biogenesis and function. (Göttingen, 2003).

For further references please see our website.