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Anti-Adipophilin / Perilipin-2 (Marker of Obesity) Antibody

Mouse Monoclonal Antibody
Catalog # AH13129

Product Information

Application	IHC-P, IF, E
Primary Accession	Q99541
Other Accession	3416
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG2b, kappa
Clone Names	ADFP/1494
Calculated MW	48075

Additional Information

Gene ID	123
Other Names	Adipophilin; ADFP; Adipose differentiation-related protein (ADRP); Perilipin-2 (PLIN2)
Application Note	ELISA (For coating, order Ab without BSA);,Immunofluorescence (0.5-1ug/ml); ,Immunohistology (Formalin-fixed) (2-4ug/ml for 30 minutes at RT) ,(Staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined.
Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage	Store at 2 to 8°C.Antibody is stable for 24 months.
Precautions	Anti-Adipophilin / Perilipin-2 (Marker of Obesity) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

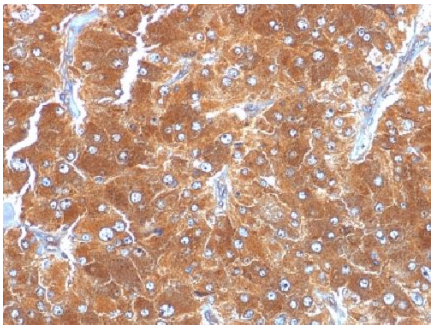
Name	PLIN2 (HGNC:248)
Synonyms	ADFP
Function	Structural component of lipid droplets, which is required for the formation and maintenance of lipid storage droplets.

Cellular Location	Membrane {ECO:0000250|UniProtKB:P43883}; Peripheral membrane protein {ECO:0000250|UniProtKB:P43883}. Lipid droplet
Tissue Location	Milk lipid globules..

Background

Recognizes a protein of 48kDa, which is identified as Adipophilin. It belongs to the perilipin family, members of which coat intracellular lipid storage droplets. This protein is associated with the lipid globule surface membrane material, and maybe involved in development and maintenance of adipose tissue. However, it is not restricted to adipocytes as previously thought, but is found in a wide range of cultured cell lines, including fibroblasts, endothelial and epithelial cells, and tissues, such as lactating mammary gland, adrenal cortex, Sertoli and Leydig cells, and hepatocytes in alcoholic liver cirrhosis, suggesting that it may serve as a marker of lipid accumulation in diverse cell types and diseases.

Images



Formalin-fixed, paraffin-embedded human Adrenal stained with Adipophilin Monoclonal Antibody (ADFP/1494).