

PLIN2 Antibody

Purified Mouse Monoclonal Antibody Catalog # AO1881a

Product Information

Application Primary Accession Reactivity Host Clonality Clone Names Isotype Calculated MW Description	WB, IHC, FC, ICC, E Q99541 Human Mouse Monoclonal 2C5H8 IgG1 48075 The protein encoded by this gene 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. Alternatively spliced transcript variants have been found for this gene.
Immunogen	Purified recombinant fragment of human PLIN2 (AA: 286-437) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide

Gene ID123Other NamesPerilipin-2, Adipophilin, Adipose differentiation-related protein, ADRP, PLIN2,
ADFPDilutionWB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 FC~~1/200 - 1/400 ICC~~N/A
E~~1/10000StorageMaintain refrigerated at 2-8°C for up to 6 months. For long term storage store
at -20°C in small aliquots to prevent freeze-thaw cycles.PrecautionsPLIN2 Antibody is for research use only and not for use in diagnostic or
therapeutic procedures.

Additional Information

Protein Information

Name	PLIN2 (<u>HGNC:248</u>)
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

This gene is a member of the caudal-related homeobox transcription factor gene family. The encoded protein is a major regulator of intestine-specific genes involved in cell growth an differentiation. This protein also plays a role in early embryonic development of the intestinal tract. Aberrant expression of this gene is associated with intestinal inflammation and tumorigenesis. ;

References

1. Am J Physiol Endocrinol Metab. 2012 Nov 1;303(9):E1158-65. 2. Exp Physiol. 2012 Aug;97(8):970-80.

Images



Figure 3: Western blot analysis using PLIN2 mouse mAb against HepG2 cell lysate.





Figure 4: Immunofluorescence analysis of HepG2 cells using PLIN2 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Secondary antibody from Fisher (Cat#: 35503)

Figure 5: Flow cytometric analysis of HepG2 cells using PLIN2 mouse mAb (green) and negative control (red).

Figure 6: Immunohistochemical analysis of paraffin-embedded rectum cancer tissues using PLIN2 mouse mAb with DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.