

Mouse anti-Human Adipophilin/Perilipin-2 Monoclonal Antibody | anti-PLIN2 antibody

Adipophilin/Perilipin-2 (Marker of Obesity)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA62936	Mouse	Human	Western Blot, Immunofluorescence, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

Adipophilin/Perilipin-2; Monoclonal Antibody; Adipophilin/Perilipin-2 (Marker of Obesity); Adipophilin; ADFP; Adipose differentiation-related protein (ADRP); Perilipin-2 (PLIN2); anti-PLIN2 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	ADFP/1365
Specificity	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.
Form/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.
Sequence Length	437
Applicable Applications for anti-PLIN2 antibody	WB (Western Blot), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Immunogen	Recombinant fragment (around aa 249-376) of human Adipophilin (ADFP) protein (exact sequence is proprietary)
Cellular Localization	Cytoplasmic
Hu-chromosome Location	9p22.1
Positive Control	HepG2 or JAR cells. Liver, Adrenal gland or Cerebellum.
Preparation and Storage	Antibody with azide - store at 2 to 8 degree C. Non-hazardous. No MSDS required.

IMAGES



Application Data

Analysis of Protein Array containing more than 19,000 full-length human proteins using Adipophilin Mouse Monoclonal Antibody (ADFP/1365). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



FCM/FACS (Flow Cytometry)

Flow Cytometry of human Adipophilin on PBMC. Green: Isotype Control; Red: Adipophilin Monoclonal Antibody (ADFP/1365).



SDS-PAGE

SDS-PAGE Analysis Purified Adipophilin Mouse Monoclonal Antibody (ADFP/1365). Confirmation of Purity and Integrity of Antibody.



WB (Western Blot)

Western Blot of recombinant Adipophilin and Jurkat Cell Lysate using Adipophilin Monoclonal Antibody (ADFP/1365).

ADDITIONAL INFORMATION

References	Kern, P.A., et al. 2004. Perilipin expression in human adipose tissue is elevated with obesity. J. Clin. Endocrinol. Metab. 89: 1352-1358.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	34577059
NCBI GeneID	123
NCBI Accession #	NP_001113.2
NCBI GenBank Nucleotide #	NM_001122.3
UniProt Accession #	Q99541; Q9BSC3
Molecular Weight	48kDa
NCBI Official Full Name	perilipin-2
NCBI Official Synonym Full Names	perilipin 2
NCBI Official Symbol	PLIN2
NCBI Official Synonym Symbols	ADFP; ADRP
NCBI Protein Information	perilipin-2
UniProt Protein Name	Perilipin-2
UniProt Gene Name	PLIN2
UniProt Synonym Gene Names	ADFP; ADRP

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