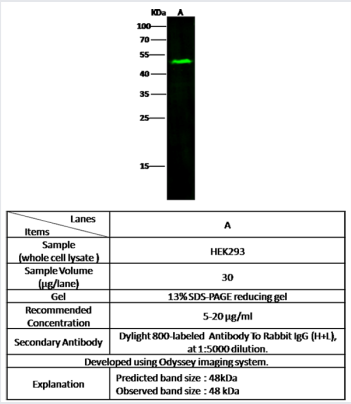
ADFP/PLIN2 (PLIN2) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ADFP/PLIN2, Polyclonal Antibody
Full Product Name	Anti-ADFP/PLIN2 Antibody, Rabbit Polyclonal
Product Gene Name	anti-PLIN2 antibody
Product Synonym Names	PLIN2 Antibody, Rabbit PAb, Antigen Affinity Purified; perilipin 2; Anti-ADFP Antibody; Anti-ADRP Antibody
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid; 0.2um filtered solution in PBS
Purity/Purification	Protein A & Antigen Affinity
Specificity	Human PLIN2
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Molecular Weight	48,075 Da
OMIM	103195
3D Structure	ModBase 3D Structure for Q99541
Immunogen	A synthetic peptide corresponding to the N-terminus of the Human PLIN2
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the N-terminus of the Human PLIN2, and purified by antigen affinity chromatography.
Applications Tested/Suitable for anti-PLIN2 antibody	Western Blot (WB)
Application Notes for anti-PLIN2 antibody	WB: 1:500-1:2000
Related Product Information for anti-PLIN2 antibody	PLIN2 (Perilipin-2) is a protein that can anchor on the membrane of lipid droplets (LDs), playing a vital role in the early formation of LDs and in the regulation of LD metabolism in many types of cells. Perilipin 2 (PLIN2) is the most abundant lipid droplet (LD)-associated protein in nonadipose tissue, and its expression correlates with intracellular lipid accumulation.PLIN2 (perilipin 2) is a cytosolic protein that promotes the formation and stabilization of the intracellular lipid droplets, organelles involved in the storage of lipid depots.
Other Notes	Small volumes of anti-PLIN2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PLIN2 purchase	MBS8101786 is an antibody targeting PLIN2. Also known as Anti-ADFP/PLIN2 Antibody, Rabbit Polyclonal. Reactive in Human. Host: Rabbit.



Items \ Lanes	A
Sample (whole cell lysate)	HEK293
Sample Volume (µg/lane)	30
Gel	13% SDS-PAGE reducing gel
Recommended Concentration	5-20 µg/ml
Secondary Antibody	Dylight 800-labeled Antibody To Rabbit IgG (H+L), at 1:5000 dilution.
Developed using Odyssey imaging system.	
Explanation	Predicted band size : 48kDa Observed band size : 48 kDa

Western Blot (WB) of anti-PLIN2 antibody
Anti-PLIN2 rabbit polyclonal antibody at 1:500 dilution Lane A: HEK293 Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti- Rabbit IgG H&L (Dylight 800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size:48 kDa Observed band size:48 kDa

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PLIN2. It may not necessarily be applicable to this product.

NCBI GI #	34577059
NCBI GeneID	123
NCBI Accession #	NP_001113.2
UniProt Primary Accession #	Q99541
UniProt Secondary Accession #	Q9BSC3
UniProt Related Accession #	Q99541
GenBank Nucleotide #	NM_001122.3
NCBI Official Full Name	perilipin-2
NCBI Official Synonym Full Names	perilipin 2
NCBI Official Symbol	PLIN2
NCBI Official Synonym Symbols	ADFP; ADRP
UniProt Protein Name	Perilipin-2
UniProt Synonym Protein Names	Adipophilin; Adipose differentiation-related protein; ADRP
Protein Family	Perilipin
UniProt Gene Name	PLIN2
UniProt Synonym Gene Names	ADFP; ADRP
UniProt Entry Name	PLIN2_HUMAN
NCBI Protein Information	perilipin-2; adipophilin; adipose differentiation-related protein
NCBI Summary for PLIN2	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. [provided by RefSeq, Mar 2011]

UniProt Comments for PLIN2	perilipin 2: May be involved in development and maintenance of adipose tissue. Belongs to the perilipin family. Protein type: Endoplasmic reticulum Chromosomal Location of Human Ortholog: 9p22.1 Cellular Component: endoplasmic reticulum; extracellular region; plasma membrane; lipid particle; nucleus; cytosol Biological Process: long-chain fatty acid transport; response to drug; sequestering of lipid; cellular lipid metabolic process; response to organic cyclic substance
Research Articles on PLIN2	**1.** Fat deposition within skeletal muscle in form of Plin2-coated lipid droplets increases with age and is associated with decreased muscle strength and thickness, likely through an IGF-1- and p53-dependent mechanism.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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