Recombinant Human PLIN2, His-tagged

Cat. No. PLIN2-63H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ADFP Human Recombinant produced in E.Coli is a signle, non-glycosylated, Polypeptide chain containing 444 amino acids and having a molecular mass of 49 kDa. The protein contains an extra 8 amino acid His tag at N-terminus. The ADFP amino acid sequence is identical to UniProtKB/Swiss-Prot entry Q99541 amino acids 4–437. The ADFP is purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
ProteinLength	444 a.a.
Description	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.
Form	Human ADFP was lyophilized from 0.5mg/ml solution containing 20mM Tris pH-7.5, and 20mM NaCl.

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Molecular Mass	49 kDa
AA Sequence	MKHHHHHHAS VAVDPQPSVV TRVVNLPLVS STYDLMSSAY LSTKDQYPYL KSVCEMAENG VKTITSVAMT SALPIIQKLE PQIAVANTYA CKGLDRIEER LPILNQPSTQ IVANAKGAVT GAKDAVTTTV TGAKDSVAST ITGVMDKTKG AVTGSVEKTK SVVSGSINTV LGSRMMQLVS SGVENALTKS ELLVEQYLPL TEEELEKEAK KVEGFDLVQK PSYYVRLGSL STKLHSRAYQ QALSRVKEAK QKSQQTISQL HSTVHLIEFA RKNVYSANQK IQDAQDKLYL SWVEWKRSIG YDDTDESHCA EHIESRTLAI ARNLTQQLQT TCHTLLSNIQ GVPQNIQDQA KHMGVMAGDI YSVFRNAASF KEVSDSLLTS SKGQLQKMKE SLDDVMDYLV NNTPLNWLVG PFYPQLTESQ NAQDQGAEMD KSSQETQRSEHKTH.
Purity	Greater than 95% as determined by SDS PAGE.
Storage	Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C.
Reconstitution	Add deionized water to prepare a working stock solution of approximately 0.5mg/mL and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

GENE INFORMATION

Gene Name	PLIN2 perilipin 2 [Homo sapiens (human)]
Official Symbol	PLIN2
Synonyms	PLIN2; ADFP; ADRP; perilipin 2; perilipin-2; adipophilin; adipose differentiation-related protein

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Gene ID	123
mRNA Refseq	NM_001122
Protein Refseq	NP_001113
MIM	103195
UniProt ID	Q99541
Chromosome Location	9p22.1
Pathway	Adipogenesis; Fatty acid, triacylglycerol, and ketone body metabolism; Metabolism of lipids and lipoproteins

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