

Recombinant Human PLIN2, T7 tagged

Cat. No. PLIN2-201H Lot. No. (See product label)

SPECIFICATION

Product Overview	PLIN2, 1-437aa, Human, T7 tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-437aa
Description	<p>PLIN2 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. Recombinant human PLIN2, fused to T7-tag at N-terminus, was expressed in E.coli.</p>
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M UREA, 10% glycerol
Molecular Mass	49.3kDa (450aa)
AA Sequence	<p>MASMTGGQQM GRGSMASVAV DPQPSVVTRV VNLPLVSSTY DLMSSAYLST KDQYPYLKSV CEMAENGVKT ITSVAMTSAL PIIQKLEPQI AVANTYACKG LDRIEERLPI LNQPSTQIVA NAKGAVTGAK DAVTTTVTGA KDSVASTITG</p>

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VMDKTKGAVT GSVEKTKSVV SGSINTVLGS RMMQLVSSGV ENALTKSELL
 VEQYLPLTEE ELEKEAKKVE GFDLVQKPSY YVRLGSLSTK LHSRAYQQAL
 SRVKEAKQKS QQTISQLHST VHLIEFARKN VYSANQKIQD AQDKLYLSWV
 EWKRSIGYDD TDESHCAEHI ESRTLAIARN LTQQLQTTCH TLLSNIQGVV
 QNIQDQAKHM GVMAGDIYSV FRNAASFKEV SDSLLTSSKG QLQKMKESLD
 DVMDYLV DNT PLNWLVGPFY PQLTESQNAQ DQGAEMDKSS QETQRSEHKT H

Purity >85% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [PLIN2 perilipin 2 \[Homo sapiens \]](#)

Official Symbol PLIN2

Synonyms PLIN2; perilipin 2; ADFP, adipose differentiation related protein; perilipin-2; adipophilin; ADRP; adipose differentiation-related protein; ADFP; MGC10598;

Gene ID [123](#)

mRNA Refseq [NM_001122](#)

Protein Refseq [NP_001113](#)

MIM [103195](#)

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UniProt ID Q99541

**Chromosome
Location** 9p22.1

Pathway Adipogenesis, organism-specific biosystem; Fatty acid, triacylglycerol, and ketone body metabolism, organism-specific biosystem; HIF-1-alpha transcription factor network, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; PPARA Activates Gene Expression, organism-specific biosystem; Regulation of Lipid Metabolism by Peroxisome proliferator-activated receptor alpha (PPARalpha), organism-specific biosystem;

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