

## Recombinant Human PLIN2, T7 tagged

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

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| <b>Product Overview</b> | PLIN2, 1-437aa, Human, T7 tag, E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>ProteinLength</b>    | 1-437aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | <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> |
| <b>Form</b>             | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M UREA, 10% glycerol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Molecular Mass</b>   | 49.3kDa (450aa)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>AA Sequence</b>      | <p>MASMTGGGQQM GRGSMASVAV DPQPSVVTRV VNLPLVSSTY DLMSSAYLST</p> <p>KDQYPYLKSV CEMAENGVKT ITSVAMTSAL PIIQKLEPQI AVANTYACKG</p> <p>LDRIEERLPI LNQPSTQIVA NAKGAVTGAK DAVTTTGTGA KDSVASTITG</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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VMDKTKGAVT GSVEKTKSVV SGSINTVLGS RMMQLVSSGV ENALTKSELL  
 VEQYLPLTEE ELEKEAKKVE GFDLVQKPSY YVRLGSLSTK LHSRAYQQAL  
 SRVKEAKQKS QQTISQLHST VHLIEFARKN VYSANQKIQD AQDKLYLSWV  
 EWKRSIGYDD TDESHCAEHI ESRTLAIARN LTQQLQTTH TLLSNIQGVP  
 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<br>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; |