

Recombinant Full Length Human AUP1 Protein, GST-tagged

Cat. No. AUP1-1544HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human AUP1 full-length ORF (NP_853553.1, 1 a.a. - 410 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	410 amino acids
Description	The protein encoded this gene is involved in several pathways including quality control of misfolded proteins in the endoplasmic reticulum and lipid droplet accumulation. Lipid droplets are organelles in the cytoplasm that store neutral lipids such as cholesterol esters and triglycerides to prevent the overabundance of free cholesterol and fatty acids in cells, but also to act as storage for other metabolic processes, such as membrane biogenesis. Reduced expression of this gene results in reduced lipid droplet clustering, a function that is dependent on ubiquitination of the protein. This protein contains multiple domains including a hydrophobic N-terminal domain, an acetyltransferase domain, a ubiquitin-binding CUE domain, and a UBE2B2-binding domain (G2BR). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2014]
Molecular Mass	72.2 kDa
AA Sequence	MELPSGPGPE RLFDSHRLPG DCFLLLVLLL YAPVGFCLLV LRLFLGIHVF LVSCALPDSV LRRFVVRTMC AVLGLVARQE DSGLRDHSVR VLISNHVTPF

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DHNIVNLLTT CSTPLLNSPP SFVCWSRGFM EMNGRGELVE SLKRFCSTR
 LPPTPLLLFP EEEATNGREG LLRFSSWPFS IQDVVQPLTL QVQRPLVSVT
 VSDASWVSEL LWSLFVPFTV YQVRWLRPVH RQLGEANEEF ALRVQQLVAK
 ELGQTGTRLT PADKAEHMKR QRHPRLRPQS AQSSFPPSPG PSPDVQLATL
 AQRVKEVLPH VPLGVIQRDL AKTGCVDLTI TNLLEGAVAF MPEDITKGTQ
 SLPTASASKF PSSGPVTPQP TALTFKSSW ARQESLQERK QALYEYARRR
 FTERRAQEAD

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
 Antibody Production; Protein Array

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

AUP1 ancient ubiquitous protein 1 [Homo sapiens]

Official Symbol

AUP1

Synonyms

AUP1; ancient ubiquitous protein 1

Gene ID

550

mRNA Refseq

NM_181575

Protein Refseq

NP_853553

MIM

602434

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UniProt ID

Q9Y679

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