

Recombinant Human AUP1 protein, GST-tagged

Cat. No. AUP1-1036H **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	Wheat Germ
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	MELPSGPGPERLFDSHRLPGDCFLLLVLLLYAPVGFCLLVRLFLGIHVFLVSCALPD SVLRRFVVRTMCAVLGLVARQEDSGLRDHSVRVLISNHVTPFDHNIVNLLTTCSTPLL NSPPSFVCWSRGFMEMNGRGELVESLKRFCASTRLPPTPLLLFPEEEATNGREGLL

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RFSSWPFSIQDVVQPLTLQVQRPLVSVTVSDASWVSELLWSLFPFTVYQVRWLRP
VHRQLGEANEELFALRVQQLVAKELGQTGTRLTPADKAEHMKRQRHPRLRPQSAQS
SFPPSPGSPDVQLATLAQRVKEVLPHVPLGVIQRDLAKTGCVDLTITNLLEGAVAF
MPEDITKGTQSLPTASASKFPSSGPVTPQPTALTFAKSSWARQESLQERKQALY
ARRRFTERRAQEAD

Applications

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

Notes

Best use within three months from the date of receipt of this protein.

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](#)

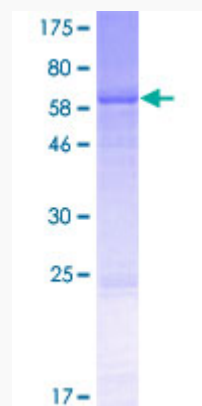
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UniProt ID

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