

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	<p>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]</p>
Molecular Mass	72.2 kDa
AA Sequence	MELPSGPGPERLFDHRLPGDCFLLLVLLLYAPVGFCLLVLRFLGLIHVFLVSCALPD SVLRRFVVRTMCAVLGLVARQEDSGLRDHRSVRVLISNHVTPFDHNIVNLLTTCSTPLL NSPPSFVCWSRGMEMNGRGELVESLKRFCSTRLPPTPLLLFPEEEATNGREGLL

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RFSSWPFSIQDVVQPLTLQVQRPLVSVTVSDASWVSELLWSLFPFTVYQVRWLRP
 VHRQLGEANEEFALRVQQLVAKELGQTGTRLTPADKAEHMKRQRHPRLRPQSAQS
 SFPPSPGSPDVQLATLAQRVKEVLPHVPLGVIQRDLAKTGCVDLTITNLLGAVAF
 MPEDITKGTQSLPTASASKFPSSGPVTPQPTALTFAKSSWARQESLQERKQALYEY
 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](#)

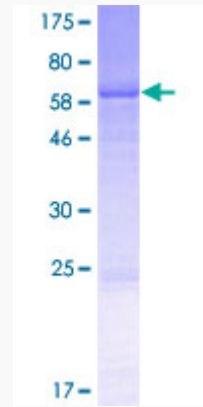
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UniProt ID

Q9Y679



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