

AUP1 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP16554b**Specification**

AUP1 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q9Y679](#)**AUP1 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 550**Other Names**

Ancient ubiquitous protein 1, AUP1

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

AUP1 Antibody (C-term) Blocking Peptide - Protein Information**Name** AUP1 ([HGNC:891](#))**Function**

Plays a role in the translocation of terminally misfolded proteins from the endoplasmic reticulum lumen to the cytoplasm and their degradation by the proteasome (PubMed:18711132, PubMed:21857022). Plays a role in lipid droplet formation (PubMed:21857022). Induces lipid droplet clustering (PubMed:24039768). Recruits ubiquitin- conjugating enzyme UBE2G2 to lipid droplets which facilitates its interaction with ubiquitin ligases AMFR/gp78 and RNF139/TRC8, leading to sterol-induced ubiquitination of HMGCR and its subsequent proteasomal degradation (PubMed:23223569, PubMed:21127063). Also required for the degradation of INSIG1, SREBF1 and SREBF2 (PubMed:23223569). Plays a role in regulating assembly and secretion of very low density lipoprotein particles and stability of apolipoprotein APOB (PubMed:28183703).

Cellular Location

Endoplasmic reticulum membrane; Peripheral membrane protein. Lipid droplet

Tissue Location

Detected in blood platelets and leukocytes (at protein level). Ubiquitous. Highly expressed in placenta, liver, kidney, skeletal muscle, heart and brain

AUP1 Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

AUP1 Antibody (C-term) Blocking Peptide - Images**AUP1 Antibody (C-term) Blocking Peptide - Background**

This gene encodes a protein that contains a domain with homology to the ancient conserved region of the archaean 1 gene and a domain that may be involved in binding ubiquitin-conjugating enzymes. The protein encoded by this gene has been shown to bind to the conserved membrane-proximal sequence of the cytoplasmic tail of integrin α (IIb) subunits. These subunits play a crucial role in the integrin α (IIb) β (3) inside-out signalling in platelets and megakaryocytes that leads to platelet aggregation and thrombus formation. This gene overlaps the gene for mitochondrial serine protease 25.

AUP1 Antibody (C-term) Blocking Peptide - References

Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) ; Kato, A., et al. J. Biol. Chem. 277(32):28934-28941(2002) Karpisheva, K.V., et al. Tsitologiya 44(9):846-851(2002) Karpisheva, K.V., et al. Tsitologiya 44(9):839-845(2002) Jang, W., et al. Genomics 36(2):366-368(1996)