

AUP1 Rabbit pAb

AUP1 Rabbit pAb
Catalog # AP58678

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9Y679
Predicted	Rat, Dog, Human, Mouse, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	45787
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human AUP1/Ancient ubiquitous protein 1
Epitope Specificity	381-476/476
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Endoplasmic reticulum membrane; Single-pass type III membrane protein; Cytoplasmic side.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Ancient ubiquitous protein 1 (AUP1) contains a domain with homology to the ancient conserved region of the archain 1 gene and a domain that may be involved in binding ubiquitin-conjugating enzymes. It has been shown to bind to the conserved membrane-proximal sequence of the cytoplasmic tail of integrin alpha(IIb) subunits.

Additional Information

Gene ID	550
Other Names	Lipid droplet-regulating VLDL assembly factor AUP1 {ECO:0000312 HGNC:HGNC:891}, Ancient ubiquitous protein 1, AUP1 (HGNC:891)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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: 21127063 , PubMed: 23223569). 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

Background

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.