

AUP1 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58678**Specification**

AUP1 Polyclonal Antibody - Product Information

Application	WB
Primary Accession	O9Y679
Reactivity	Rat, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	45787

AUP1 Polyclonal Antibody - Additional Information**Gene ID** 550**Other Names**

Lipid droplet-regulating VLDL assembly factor AUP1 {ECO:0000312|HGNC:HGNC:891}, Ancient ubiquitous protein 1, AUP1 (http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=891)
HGNC:891

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

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.

AUP1 Polyclonal Antibody - 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](http://www.uniprot.org/citations/18711132), PubMed:[21857022](http://www.uniprot.org/citations/21857022)). Plays a role in lipid droplet formation (PubMed:[21857022](http://www.uniprot.org/citations/21857022)). Induces lipid droplet clustering (PubMed:[24039768](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/21127063), PubMed:[23223569](http://www.uniprot.org/citations/23223569)). Also required for the degradation of INSIG1, SREBF1 and SREBF2 (PubMed:

href="http://www.uniprot.org/citations/23223569" target="_blank">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

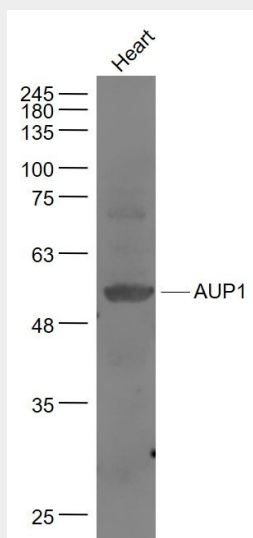
Detected in blood platelets and leukocytes (at protein level). Ubiquitous. Highly expressed in placenta, liver, kidney, skeletal muscle, heart and brain

AUP1 Polyclonal Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

AUP1 Polyclonal Antibody - Images



Sample:

Heart (Mouse) Lysate at 40 ug

Primary: Anti- AUP1 (bs-7550R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 53 kD

Observed band size: 53 kD