

Rabbit anti-Human AUP1 Polyclonal Antibody | anti-AUP1 antibody

Anti-AUP1 Antibody Picoband

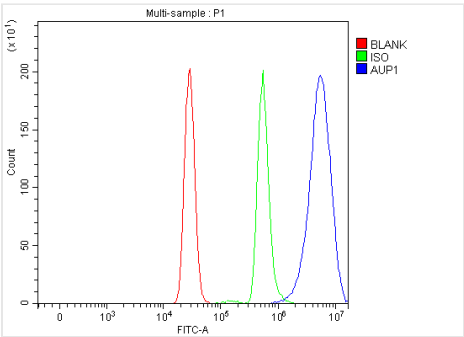
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126540	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

AUP1; Polyclonal Antibody; Anti-AUP1 Antibody Picoband; anti-AUP1 antibody

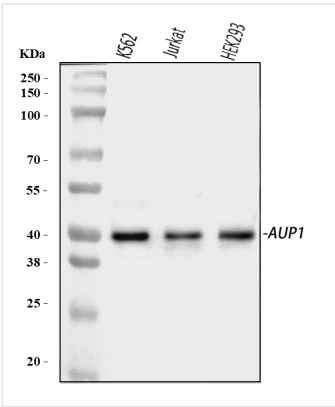
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-AUP1 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human AUP1 recombinant protein (Position: A77-R399).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of U937 cells using anti-AUP1 antibody (AAA126540). Overlay histogram showing U937 cells stained with AAA126540 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-AUP1 Antibody (AAA126540, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of AUP1 using anti-AUP1 antibody (AAA126540). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human K562 whole cell lysates, Lane 2: human Jurkat whole cell lysates, Lane 3: human HEK293 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-AUP1 antigen affinity purified polyclonal antibody (#AAA126540) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for AUP1 at approximately 42 kDa. The expected band size for AUP1 is at 42 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-AUP1 antibody	Ancient ubiquitous protein 1 is a protein that in humans is encoded by the AUP1 gene. 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.
Product Categories/Family for anti-AUP1 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	31712030
NCBI GeneID	550
NCBI Accession #	NP_853553.1
NCBI GenBank Nucleotide #	NM_181575.3
UniProt Accession #	Q9Y679; Q68CX8
Molecular Weight	41,587 Da
NCBI Official Full Name	ancient ubiquitous protein 1
NCBI Official Synonym Full Names	ancient ubiquitous protein 1
NCBI Official Symbol	AUP1
NCBI Protein Information	ancient ubiquitous protein 1; OTTHUMP00000160424; OTTHUMP00000202724

UniProt Protein Name	Ancient ubiquitous protein 1
UniProt Gene Name	AUP1
UniProt Entry Name	AUP1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/aup1-antibody-flow-cytometry-western-blot-elisa/126540>