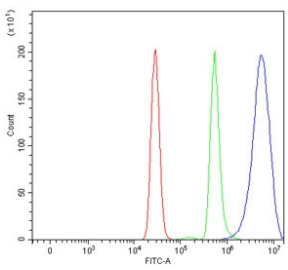
Ancient ubiquitous protein 1 Antibody / AUP1 (RQ6946)

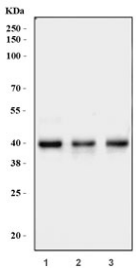
Catalog No.	Formulation	Size
RQ6946	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q9Y679
Applications	Western Blot : 0.5-1 ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This Ancient ubiquitous protein 1 antibody is available for research use only.



Flow cytometry testing of human U937 cells with Ancient ubiquitous protein 1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Ancient ubiquitous protein 1 antibody.



Western blot testing of human 1) K562, 2) Jurkat and 3) HEK293 cell lysate with Ancient ubiquitous protein 1 antibody. Predicted molecular weight: 42-46 kDa.

Description

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 trigylycerides 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 acetyltranferase domain, a ubiquitin-binding CUE domain, and a UBE2B2-binding domain (G2BR). Alternative splicing results in multiple transcript variants.

Application Notes

Optimal dilution of the Ancient ubiquitous protein 1 antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids A77-R399) was used as the immunogen for the Ancient ubiquitous protein 1 antibody.

Storage

After reconstitution, the Ancient ubiquitous protein 1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.