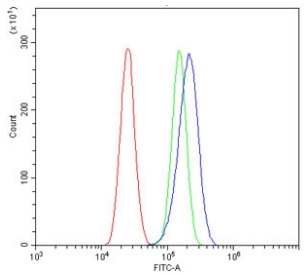
ATG7/APG7 Antibody (RQ5797)

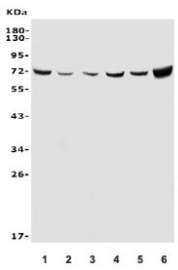
Catalog No.	Formulation	Size
RQ5797	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

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	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	O95352
Applications	Western Blot : 0.5-1ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This ATG7/APG7 antibody is available for research use only.



Flow cytometry testing of human U-87 MG cells with ATG7/APG7 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= ATG7/APG7 antibody.



Western blot testing of human 1) HeLa, 2) HepG2, 3) A549, 4) HL-60, 5) Jurkat and 6) ThP-1 cell lysate with ATG7 antibody. Predicted molecular weight: 70-80 kDa.

Description

Autophagy related 7 is a protein in humans encoded by ATG7 gene. It is mapped to 3p25.3. This gene encodes an E1-like activating enzyme that is essential for autophagy and cytoplasmic to vacuole transport. The encoded protein is also thought to modulate p53-dependent cell cycle pathways during prolonged metabolic stress. It has been associated with multiple functions, including axon membrane trafficking, axonal homeostasis, mitophagy, adipose differentiation, and hematopoietic stem cell maintenance. Alternative splicing results in multiple transcript variants.

Application Notes

Optimal dilution of the ATG7/APG7 antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids D7-Q690) was used as the immunogen for the ATG7/APG7 antibody.

Storage

After reconstitution, the ATG7/APG7 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.