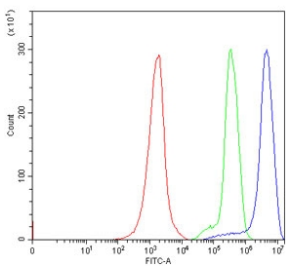
ATG4B Antibody (RQ6821)

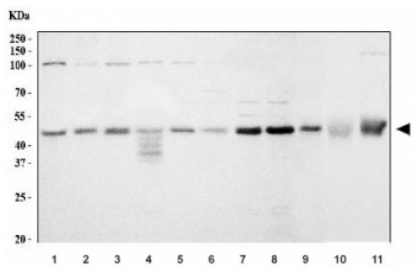
Catalog No.	Formulation	Size
RQ6821	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Rat
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	Q9Y4P1
Applications	Western blot: 1-2ug/ml Flow cytometry: 1-3ug/million cells Direct ELISA: 0.1-0.5ug/ml
Limitations	This ATG4B antibody is available for research use only.



Flow cytometry testing of human Jurkat cells with ATG4B antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= ATG4B antibody.



Western blot testing of 1) human HeLa, 2) human 293T, 3) human HepG2, 4) human Jurkat, 5) human RT4, 6) human MCF7, 7) human MOLT4, 8) human HEL, 9) rat brain, 10) rat liver and 11) rat RH35 cell lysate with ATG4B antibody. Expected molecular weight: 37-52 kDa (multiple isoforms).

Description

Cysteine protease ATG4B is an enzyme that in humans is encoded by the ATG4B gene. Autophagy is the process by which endogenous proteins and damaged organelles are destroyed intracellularly. Autophagy is postulated to be essential for cell homeostasis and cell remodeling during differentiation, metamorphosis, non-apoptotic cell death, and aging. Reduced levels of autophagy have been described in some malignant tumors, and a role for autophagy in controlling the unregulated cell growth linked to cancer has been proposed. This gene encodes a member of the autophagin protein family. The encoded protein is also designated as a member of the C-54 family of cysteine proteases. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.

Application Notes

Optimal dilution of the ATG4B antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids M1-L392) was used as the immunogen for the ATG4B antibody.

Storage

After reconstitution, the ATG4B antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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