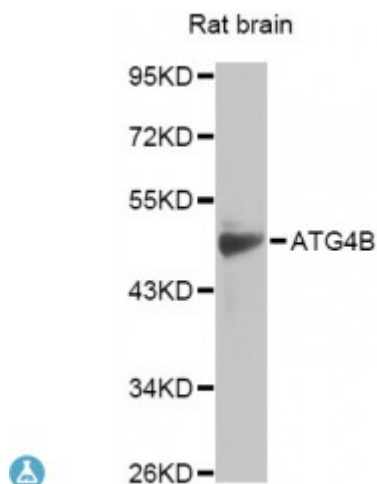


Anti-ATG4B Antibody



Description

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.

Model	STJ116047
Host	Rabbit
Reactivity	Human, Rat
Applications	WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-393 of human ATG4B (NP_037457.3).
Gene ID	23192
Gene Symbol	ATG4B
Dilution range	WB 1:500 - 1:2000
Tissue Specificity	Mainly expressed in the skeletal muscle, followed by brain, heart, liver and pancreas
Purification	Affinity purification
Note	For Research Use Only (RUO).

Protein Name	Cysteine protease ATG4B
Molecular Weight	44.294 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:20790 OMIM:611338 Reactome:R-HSA-1632852
Alternative Names	Cysteine protease ATG4B
Function	Cysteine protease required for the cytoplasm to vacuole transport (Cvt) and autophagy, Cleaves the C-terminal amino acid of ATG8 family proteins MAP1LC3, GABARAPL1, GABARAPL2 and GABARAP, to reveal a C-terminal glycine, Exposure of the glycine at the C-terminus is essential for ATG8 proteins conjugation to phosphatidylethanolamine (PE) and insertion to membranes, which is necessary for autophagy, Has also an activity of delipidating enzyme for the PE-conjugated forms,
Cellular Localization	Cytoplasm

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