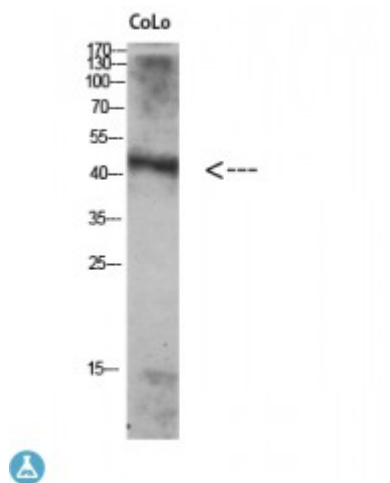


Anti-Atg4A antibody



Description	Rabbit polyclonal to Atg4A.
Model	STJ91758
Host	Rabbit
Reactivity	Human, Mouse
Applications	ELISA, IF, IHC, WB
Immunogen	Synthesized peptide derived from human Atg4A
Immunogen Region	50-130 aa, Internal
Gene ID	115201
Gene Symbol	ATG4A
Dilution range	WB 1:500-1:2000IHC 1:100-1:300IF 1:200-1:1000ELISA 1:20000
Specificity	Atg4A Polyclonal Antibody detects endogenous levels of Atg4A protein.
Tissue Specificity	Widely expressed, at a low level, and the highest expression is observed in skeletal muscle and brain. Also detected in fetal liver.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Cysteine protease ATG4A AUT-like 2 cysteine endopeptidase Autophagin-2 Autophagy-related cysteine endopeptidase 2 Autophagy-related protein 4 homolog A hAPG4A
Molecular Weight	45.378 kDa

Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:16489OMIM:300663
Alternative Names	Cysteine protease ATG4A AUT-like 2 cysteine endopeptidase Autophagin-2 Autophagy-related cysteine endopeptidase 2 Autophagy-related protein 4 homolog A hAPG4A
Function	Cysteine protease required for the cytoplasm to vacuole transport (Cvt) and autophagy. Cleaves the C-terminal amino acid of ATG8 family proteins 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. Preferred substrate is GABARAPL2 followed by MAP1LC3A and GABARAP. Has also an activity of delipidating enzyme for the PE-conjugated forms.
Cellular Localization	Cytoplasm

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