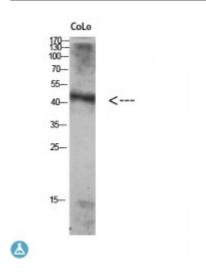


Anti-Atg4A antibody



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 <u>115201</u>

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

IgG Isotype

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

1 mg/ml Concentration

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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