

APG3(cleaved) Antibody
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP3740a

Specification

APG3(cleaved) Antibody - Product Information

Application	DB,E
Primary Accession	Q9NT62
Other Accession	Q6AZ50 , Q9CPX6 , Q6PFS7 , Q0VCL3
Reactivity	Human
Predicted	Bovine, Zebrafish, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Calculated MW	35864
Antigen Region	90-104

APG3(cleaved) Antibody - Additional Information

Gene ID 64422

Other Names

Ubiquitin-like-conjugating enzyme ATG3,
632-, Autophagy-related protein 3,
APG3-like, hApg3, Protein PC3-96, ATG3,
APG3, APG3L

Target/Specificity

This APG3-cleaved Antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide 90-104aa selected from human APG3.

Dilution

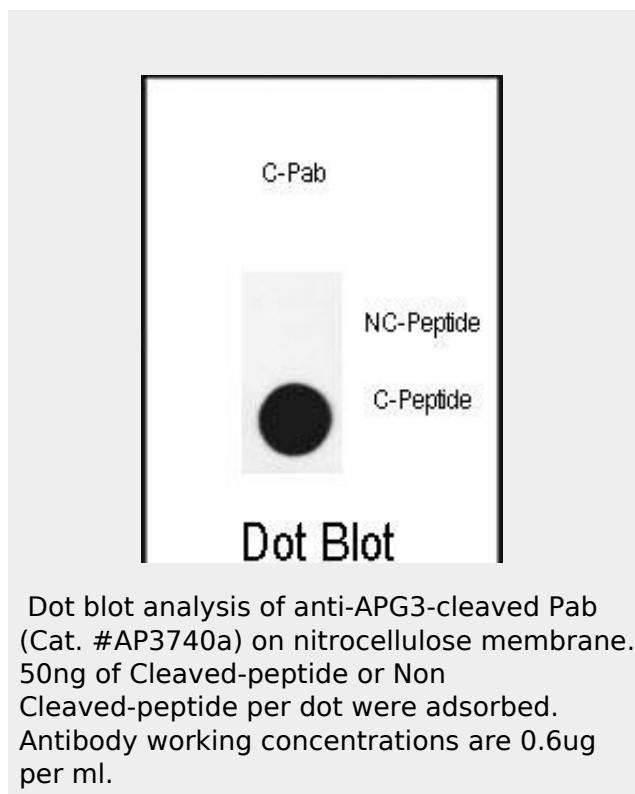
DB~1:500

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



Precautions

APG3(cleaved) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

APG3(cleaved) Antibody - Protein Information

Name ATG3

Synonyms APG3, APG3L

Function

E2 conjugating enzyme required for the cytoplasm to vacuole transport (Cvt), autophagy, and mitochondrial homeostasis. Responsible for the E2-like covalent binding of phosphatidylethanolamine to the C-terminal Gly of ATG8-like proteins (GABARAP, GABARAPL1, GABARAPL2 or MAP1LC3A). The ATG12-ATG5 conjugate plays a role of an E3 and promotes the transfer of ATG8-like proteins from ATG3 to phosphatidylethanolamine (PE). This step is required for the membrane association of ATG8-like proteins. The formation of the ATG8- phosphatidylethanolamine conjugates is essential for autophagy and for the cytoplasm to vacuole transport (Cvt). Preferred substrate is MAP1LC3A. Also acts as an autocatalytic E2-like enzyme, catalyzing the conjugation of ATG12 to itself, ATG12 conjugation to ATG3 playing a role in mitochondrial homeostasis but not in autophagy. ATG7 (E1-like enzyme) facilitates this reaction by forming an E1-E2 complex with ATG3. Promotes primary ciliogenesis by removing OFD1 from centriolar satellites via the autophagic pathway.

Cellular Location

Cytoplasm.

Tissue Location

Widely expressed, with a highest expression in heart, skeletal muscle, kidney, liver and placenta

APG3(cleaved) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)

- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)