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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

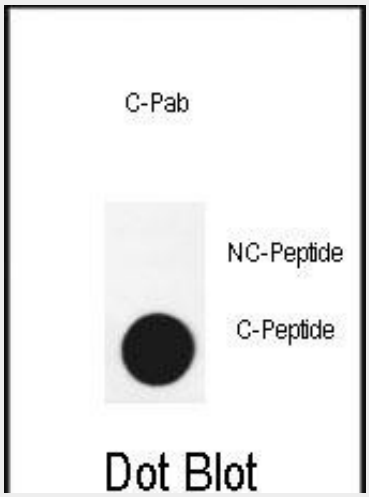
Other Names
Ubiquitin-like-conjugating enzyme ATG3, 632-, Autophagy-related protein 3, APG3-like, hApg3, Protein PC3-96, ATG3, APG3, APG3L

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.



Dot blot analysis of anti-APG3-cleaved Pab (Cat. #AP3740a) on nitrocellulose membrane. 50ng of Cleaved-peptide or Non Cleaved-peptide per dot were adsorbed. Antibody working concentrations are 0.6ug per ml.

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 Cytomety
- Cell Culture