

**APG4D Antibody (Center S341) Blocking Peptide**  
Synthetic peptide  
Catalog # BP17051c**Specification****APG4D Antibody (Center S341) Blocking Peptide - Product Information**Primary Accession [Q86TL0](#)**APG4D Antibody (Center S341) Blocking Peptide - Additional Information**

Gene ID 84971

**Other Names**

Cysteine protease ATG4D, 3422-, AUT-like 4 cysteine endopeptidase, Autophagin-4, Autophagy-related cysteine endopeptidase 4, Autophagy-related protein 4 homolog D, Cysteine protease ATG4D, mitochondrial, ATG4D, APG4D, AUTL4

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**APG4D Antibody (Center S341) Blocking Peptide - Protein Information**

Name ATG4D

Synonyms APG4D, AUTL4

**Function**

[Cysteine protease ATG4D]: Cysteine protease required for the cytoplasm to vacuole transport (Cvt) and autophagy. Cleaves the C- terminal amino acid of ATG8

**APG4D Antibody (Center S341) Blocking Peptide - Background**

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.

**APG4D Antibody (Center S341) Blocking Peptide - References**

Betin, V.M., et al. J. Cell. Sci. 122 (PT 14), 2554-2566 (2009) ; Lamesch, P., et al. Genomics 89(3):307-315(2007) ; Marino, G., et al. J. Biol. Chem. 278(6):3671-3678(2003)

family proteins MAP1LC3 and GABARAPL2, 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 Location**

[Cysteine protease ATG4D]: Cytoplasm

**APG4D Antibody (Center S341) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)