

**ATG4B Blocking Peptide (Center)**  
**Synthetic peptide**  
**Catalog # BP20544c****Specification****ATG4B Blocking Peptide (Center) - Product Information**

Primary Accession [Q9Y4P1](#)  
Other Accession [Q8BGE6](#), [Q6DG88](#),  
[Q6PZ02](#), [Q6PZ03](#)

**ATG4B Blocking Peptide (Center) - Additional Information**

**Gene ID** 23192

**Other Names**

Cysteine protease ATG4B, 3422-, AUT-like 1 cysteine endopeptidase, Autophagin-1, Autophagy-related cysteine endopeptidase 1, Autophagy-related protein 4 homolog B, hAPG4B, ATG4B, APG4B, AUTL1, KIAA0943

**Target/Specificity**

The synthetic peptide sequence is selected from aa 260-290 of Human ATG4B

**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.

**ATG4B Blocking Peptide (Center) - Protein Information**

**Name** ATG4B

**Synonyms** APG4B, AUTL1, KIAA0943

**ATG4B Blocking Peptide (Center) - Background**

Cysteine protease required for autophagy, which cleaves the C-terminal part of either MAP1LC3, GABARAPL2 or GABARAP, allowing the liberation of form I. A subpopulation of form I is subsequently converted to a smaller form (form II). Form II, with a revealed C-terminal glycine, is considered to be the phosphatidylethanolamine (PE)-conjugated form, and has the capacity for the binding to autophagosomes.

**ATG4B Blocking Peptide (Center) - References**

Marino G., et al. J. Biol. Chem. 278:3671-3678(2003).  
Kabeya Y., et al. J. Cell Sci. 117:2805-2812(2004).  
Nagase T., et al. DNA Res. 6:63-70(1999).  
Ohara O., et al. Submitted (AUG-2005) to the EMBL/GenBank/DDBJ databases.  
Ota T., et al. Nat. Genet. 36:40-45(2004).

**Function**

Cysteine protease required for the cytoplasm to vacuole transport (Cvt) and autophagy. Cleaves the C-terminal amino acid of ATG8 family proteins MAP1LC3, GABARAPL1, GABARAPL2 and GABARAP, 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**

Cytoplasm.

**ATG4B Blocking Peptide (Center) -  
Protocols**

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

- [Blocking Peptides](#)