

## Product datasheet for **TA329502**

### ATG4A Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-ATG4A antibody: synthetic peptide directed towards the N terminal of human ATG4A. Synthetic peptide located within the following region: DAGWGCMRLRCGQMMLAQUALICRHLGRDWSWEKQKEQPKEYQRILQCFLDR
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	45 kDa
Gene Name:	autophagy related 4A cysteine peptidase
Database Link:	<a href="#">NP_840054</a> <a href="#">Entrez Gene 115201 Human</a> <a href="#">Q8WYN0</a>



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**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. ATG4A is a member of the autophagin protein family. ATG4A is also designated as a member of the C-54 family of cysteine proteases. 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. Transcript variants that encode distinct isoforms have been identified.

**Synonyms:**

APG4A; AURL2

**Note:**

Immunogen sequence homology: Pig: 100%; Horse: 100%; Human: 100%; Bovine: 100%; Rabbit: 100%; Dog: 93%; Rat: 93%; Mouse: 93%; Zebrafish: 79%

**Protein Families:**

Protease

**Protein Pathways:**

Regulation of autophagy

**Product images:**

WB Suggested Anti-ATG4A Antibody Titration: 0.2-1 ug/ml; ELISA Titer: 1:312500; Positive Control: Human heart