



# ATG4A Antibody, Biotin conjugated

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| Product Code        | CSB-PA845174ED01HU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Storage             | Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Uniprot No.         | Q8WYN0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Immunogen           | Recombinant Human Cysteine protease ATG4A protein (1-214AA)                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Raised In           | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Species Reactivity  | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tested Applications | ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Relevance           | Cysteine protease required for the cytoplasm to vacuole transport (Cvt) and autophagy. Cleaves the C-terminal amino acid of ATG8 family proteins 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. Preferred substrate is GABARAPL2 followed by MAP1LC3A and GABARAP. Has also an activity of delipidating enzyme for the PE-conjugated forms. |
| Form                | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Conjugate           | Biotin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Storage Buffer      | Preservative: 0.03% Proclin 300<br>Constituents: 50% Glycerol, 0.01M PBS, PH 7.4                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Purification Method | >95%, Protein G purified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Isotype             | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Clonality           | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Alias               | Cysteine protease ATG4A (EC 3.4.22.-) (AUT-like 2 cysteine endopeptidase) (Autophagin-2) (Autophagy-related cysteine endopeptidase 2) (Autophagy-related protein 4 homolog A) (hAPG4A), ATG4A, APG4A AUTL2                                                                                                                                                                                                                                                                                                       |
| Species             | Homo sapiens (Human)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Research Area       | Cancer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Target Names        | ATG4A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |