

DESCRIPTION

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| Species Reactivity | Human |
| Specificity | Detects human ATG4A in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 1% cross-reactivity with recombinant human ATG4GB is observed. |
| Source | Polyclonal Sheep IgG |
| Purification | Antigen Affinity-purified |
| Immunogen | <i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human ATG4A Glu2-Val398 Accession # Q8WYN0 |
| Formulation | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS. |

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

| | Recommended Concentration | Sample |
|----------------------------|----------------------------------|--|
| Western Blot | 0.1 µg/mL | Recombinant Human ATG4A |
| Immunoprecipitation | 25 µg/mL | Conditioned cell culture medium spiked with Recombinant Human ATG4A, see our available Western blot detection antibodies |

PREPARATION AND STORAGE

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| Reconstitution | Reconstitute at 0.2 mg/mL in sterile PBS. |
| Shipping | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C |
| Stability & Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

BACKGROUND

ATG4A (Autophagy related protein 4 homolog A; also Autophagin 2) is a 50 kDa cytosolic cysteine protease mostly found in skeletal muscle and brain. It belongs to the Autophagin protein family which is involved in autophagy, a biological process in which endogenous protein and damaged organelles are destroyed. There is a potential for multiple splice forms, namely isoform 1, isoform 2, and isoform 3. Human ATG4A shares 92% and 94% aa sequence identity with mouse and canine ATG4A, respectively.