

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human ATG4A in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human ATG4B is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 514914
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human ATG4A isoform 1 Glu2-Val398 Accession # Q8WYN0
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

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	1 µg/mL	Recombinant Human ATG4A
Immunoprecipitation	25 µg/mL	Cell lysates spiked with Recombinant Human ATG4A, see our available Western blot detection antibodies

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <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

Autophagy related protein 4 homolog A (ATG4A), also known as 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 proteins and damaged organelles are destroyed. Human ATG4A shares 100%, 94% and 93% identity with that of chimpanzee, dog and mouse.