

DESCRIPTION

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
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunoprecipitation	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

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