**BACKGROUND**

Atg4C (ATG4 autophagy related 4 homolog C), also known as AUTL1 (AUT-like 1, cysteine endopeptidase), AUTL3 (AUT-like 3 cysteine endopeptidase), APG4-C, autophagin-3 or cysteine protease ATG4C, is a 458 amino acid tumor suppressor protein belonging to the peptidase C54 family. Encoded by a gene that maps to human chromosome 1p31.3, Atg4C is conserved in chimpanzee, canine, bovine, mouse, rat, chicken and zebrafish. Atg4C is highly expressed in skeletal muscle, heart, liver and testis, and localizes to cytoplasm. Functioning as a cysteine protease, which is necessary for autophagy, Atg4C cleaves the C-terminal region of either MAP1LC3, GABARAPL2 or GABARAP. Atg4C is also inhibited by N-ethylmaleimide.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: ATG4C (human) mapping to 1p31.3; Atg4c (mouse) mapping to 4 C6.

**SOURCE**

Atg4C (287CT12.2.2) is a mouse monoclonal antibody raised against a recombinant protein corresponding to Atg4C of human origin.

**PRODUCT**

Each vial contains 100 µg IgG, kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

Atg4C (287CT12.2.2) is recommended for detection of Atg4C of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)).


Molecular Weight of Atg4C: 52 kDa.

Positive Controls: c4 whole cell lysate: sc-364186 or human kidney extract: sc-383764.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

1) Western Blotting: use m-IgG, m-IgG-HRP, or m-IgG-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:100-1:1000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminal Reagent: sc-2048. 2) Immunoprecipitation: use ProteinA/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

**DATA**

![Western blot analysis of Atg4C expression in c4 whole cell lysate (A) and human kidney tissue extract (B).](image-url)

**STORAGE**

Store at 4°C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**PROTOCOLS**

See our website at www.scbt.com for detailed protocols and support products.