product AS15 2831
ATG4 | Autophagy protein 4

product information

Background
ATG4 (Autophagy protein 4) is a protein with cysteine-type endopeptidase activity involved in autophagy process.

Immunogen
recombinant ATG4 of Chlamydomonas reinhardtii, Gene ID Cre12.g510100

Host
Rabbit

Clonality
Polyclonal

Purity
Serum

Format
Lyophilized

Quantity
50 µl

Reconstitution
For reconstitution add 50 µl of sterile water.

Storage
Store lyophilized/reconstituted at -20°C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tubes.

Tested applications
Western blot (WB)

Related products
AS15 3060 | Anti-ATG5 | Autophagy-related protein 5, rabbit antibodies
AS14 2811 | Anti-ATG8A | Autophagy-related protein 8a, rabbit antibodies
Plant and algal protein extraction buffer

Additional information
This antibody is recognizing 25 ng of recombinant CrATG4
This product can be sold containing ProClin if requested.

Application information

Recommended dilution
1 : 5000 (WB)

Expected | apparent MW
64.2 | 70 kDa

Confirmed reactivity
Chlamydomonas reinhardtii

Predicted reactivity
Coccomyxa subellipsoida C-169, Tetraselmis sp. GSL018, Volvox carteri

Not reactive in
Arabidopsis thaliana, Casicum annuum, Nicotiana tabacum

Additional information
Technical details how to work with this antibody are provided here: Pérez-Pérez et al. (2016). Control of Autophagy in Chlamydomonas Is Mediated through Redox-Dependent Inactivation of the ATG4 Protease. Plant Physiol. 2016 Dec;172(4):2219-2234.

Selected references
10 ng of recombinant, purified *Chlamydomonas reinhardtii* ATG4 (left) and 15 µg of *Chlamydomonas reinhardtii* total cell extract (right) were separated on 12 % SDS-PAGE and blotted 1h to nitrocellulose membrane using semi-dry transfer. Blots were blocked with 5 % dry milk in PBS for 1h at room temperature (RT) with agitation. Blot was incubated in the primary antibody at a dilution of 1:5000 over night at 4 ºC with agitation. The antibody solution was decanted and the blot was rinsed briefly twice, then washed once for 15 min and 3 times for 5 min in TBS-T at RT with agitation. Blot was incubated in secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated, AS09 602, Agrisera) diluted to 1:10000 in 5 % dry milk for 1h at RT with agitation. The blot was washed as above and developed for 5 min with chemiluminescent detection reagent, according to the manufacturer's instructions. Exposure time was 30 seconds

Courtesy of María Esther Pérez-Pérez and Jose L. Crespo, CSIC, Spain