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