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Agrisera AB | Box 57 | SE-91121 Vännäs | Sweden | +46 (0)935 33 000 | www.agrisera.com

Product no AS14 2811

ATG8A-I | Autophagy-related protein 8A-I isoforms

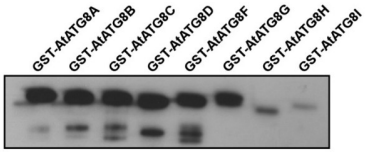
Product information

Immunogen	Part of recombinant ATG8A from *Arabidopsis thaliana*, UniProt:Q8LEM4,TAIR:AT4G21980
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 the tubes briefly prior to opening them to avoid any losses that might occur from material adhering to the cap or sides of the tube.
Additional information	This product can be sold containing ProClin if requested

Application information

Recommended dilution	1 :4000 (WB)
Expected | apparent MW	13,6 kDa
Confirmed reactivity	Recombinant ATG8 A-I of *Arabidopsis thaliana,* Oryza sativa
Predicted reactivity	Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Additional information	This antibody is recognzing recombinant ATG8 isoforms (A to I) of *Arabidopsis thaliana* overexpressed with GST.
Selected references	Liu et al. (2023). Dynamic monitoring of TGW6 by selective autophagy during grain development in rice. New Phytol. 2023 Dec;240(6):2419-2435. doi: 10.1111/nph.19271. Gomez et al. (2022) Phosphatidylinositol-4-phosphate controls autophagosome formation in Arabidopsis thaliana. Nat Commun. 2022 Jul 28;13(1):4385. doi: 10.1038/s41467-022-32109-2. PMID: 35902598; PMCID: PMC9334301.

Application example



2 µg of respective recombinant *Arabidopsis thaliana* ATG8 isoform, denatured at 95C for 2 min. were separated on % SDS-PAGE and blotted 1h to nitrocellulose (GE10600003) using semi-dry transfer. Blots were blocked with 3% milk for 1h at room temperature (RT) with agitation. Blot was incubated in the primary antibody at a dilution of 1: 4 000 for 1h at RT 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, from Agrisera AS09 602) diluted to 1:5 000 in for 1h at RT with agitation. The blot was washed as above and developed on film (GE28-9068-37) with high sensitivity chemiluminescent detection reagent. Exposure time was 1 second.

Courtesy of Dr. Steingrim Svenning, UiT, The Arctic University, Norway