Agrisera
Part of Olink® Group

This product is **for research use only** (not for diagnostic or therapeutic use) **contact: support@agrisera.com**

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

Product no AS09 467

Anti-V-ATPase, A | Vacuolar H+-ATPase subunit A (ammonium sulfate purified IgG)

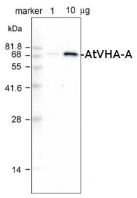
Product information

Immunogen	KLH-conjugated synthetic peptide derived from *Arabidopsis thaliana* V-ATPase subunit A, O23654, At1g78900
Host	Rabbit
Clonality	Polyclonal
Purity	Ammonium sulfate purified, total IgG.
Format	Lyophilized
Quantity	100 µl
Reconstitution	For reconstitution add 100 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	0.1 % sodium azide is added as preservative. For antibody re-suspending information check the tube label. Antibodies will detect target protein in a few µg of a crude preparation loaded per well. If purified preparations of vacuolar and plasma membranes are used, one µg load per well should be sufficient. Protocol for isolation of plant vacuolar membranes can be found here.

Application information

Recommended dilution	1 : 8000 (ELISA), 1 : 2000 (WB)
Expected | apparent MW	68.8 | 70 kDa (*Arabidopsis thaliana*)
Confirmed reactivity	*Arabidopsis thaliana, Mesembryanthemum crystallinum, Nicotiana tabacum*
Predicted reactivity	*Chlamydomonas reinhardtii, Brassica napus, Cucumis sativus, Gossypium mexicanum, Hordeum vulgare, Oryza sativa, Ostreococcus lucimarinus, Phaseolus aureus, Populus balsamifera, Physcomitrium patens, Solanum lycopersicon, Triticum aestivum, Zea mays* Species of your interest not listed? Contact us
Not reactive in	*Thermotoga neapolitana*
Additional information	Protein or membrane sample should be treated at 70°C for 10 min before loading on the gel. Diluted antibody solution can be used 2 to 3 times within one month if it contains 0.1 % sodium azide as preservative and is stored at -20ºC to -80ºC.
Selected references	Vera-Estrella et al. (2017). Cadmium and zinc activate adaptive mechanisms in Nicotiana tabacum similar to those observed in metal tolerant plants. Planta. 2017 Apr 28. doi: 10.1007/s00425-017-2700-1. Barkla et al. (2016). Single-cell-type quantitative proteomic and ionomic analysis of epidermal bladder cells from the halophyte model plant Mesembryanthemum crystallinum to identify salt-responsive proteins. BMC Plant Biol. 2016 May 10;16(1):110. doi: 10.1186/s12870-016-0797-1. Yoshihiro et al. (2006) Immunochemical analysis of aquaporin isoforms in Arabidopsis suspension-cultured cells. Cells. Biosci.Biotechnol. Biochem. 70: 980-987.

Application example



Agrisera
Part of Olink® Group

contact: support@agrisera.com

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

1 µg and 10 µg of crude membrane fraction/lane from *Arabidopsis thaliana* were separated on 12 % **SDS-PAGE** and blotted 1h to **PVDF membrane** (40 min. at 10 V using BioRad semidry transfer). Filters were blocked 1h with 5 % low-fat **milk powder** in TBS-T (0.05% Triton X.100). Membranes were washed 5 times with TBS-T, each time in a fresh polystyrene box and probed with anti-V-ATPase subunit A antibodies (AS09 467, **1:2000**, 1h) and secondary anti-rabbit (**1:2000,** 1 h). All steps were performed in RT with agitation.