Agrisera
Part of Thermo Fisher Scientific

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 AS22 4814

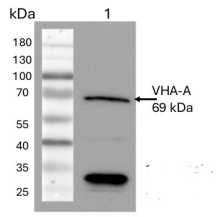
Anti-V-ATPase, A | Vacuolar H+-ATPase subunit A

Product information

Immunogen	KLH-conjugated synthetic peptide derived from *Arabidopsis thaliana* V-ATPase subunit A, O23654, At1g78900
Host	Rabbit
Clonality	Polyclonal
Purity	Antigen affinity purified serum, in PBS pH 7.4
Format	Lyophilized
Quantity	50 µg
Reconstitution	For reconstitution, add 50 µl of sterile or deionized 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.
Additional information	A protocol for isolation of plant vacuolar membranes can be found here.

Application information

Recommended dilution	1 : 1000 (WB)
Expected | apparent MW	68.8 | 69 kDa
Confirmed reactivity	*Arabidopsis thaliana*
Predicted reactivity	*Chlamydomonas reinhardtii, Brassica napus, Cucumis sativus, Gossypium mexicanum, Hordeum vulgare, Mesembryanthemum crystallinum, Nicotiana tabacum, 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	*Chlorella sp., Thermotoga neapolitana*
Selected references	To be added when available, antibody available in January 2026.



15 µg/well of microsomal membrane pellet extracted freshly from *Arabidopsis thaliana* Col-0 with homogenization buffer(350 mM sucrose, 70 mM Tris-HCl (pH7.5), 10 % (v/v) Glycerol, 3mM Na2 EDTA, 1,5 % (w/v) PVP-40, 4 mM DTT, 1x complete protease inhibitor) and denaturated with Laemmli buffer at 70°C for 5 minutes. Samples were separated on 10% SDS-Page and blottet 1h to PVDF (pore size of 0.2 µm), using wet transfer. Blot was incubated in the primary antibody at a dilution of 1:1000 ON/4°C with agitation. The antibody solution was decanted, and the blot was washed 3 times for 10 minutes in TBS-T at RT with agitation. Blot was incubated in Agrisera matching secondary antibody (anti rabbit IgG horseradish peroxidase conjugated, AS09 602) diluted to 1:10 000 in TBS-T for 2h/RT with agitation. The blot was washed as above and developed for 2 min with ThermoScientific SuperSignalTM West Pico PLUS Chemiluminescent substrate. Exposure time was 20 seconds.

Courtesy of both Hanna Bindrich and Nadja Wunsch, University of Heidelberg, Germany

Method for microsomal membrane extraction was based on Wang, Y., and Sze, H. (1985). Chemistry, 260, 10434–10443. Wang et al. (1986). Electrogenic H -pumping pyrophosphatase in tonoplast vesicles of oat roots, pp. 497–502.