

This product is for research use only (not for diagnostic or therapeutic use)

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Product no AS09 466

V-ATPase, a | Vacuolar H+ ATPase, subunit a

Product information

Immunogen KLH-cougted synthetic peptide derived from Arabidopsis thaliana V-ATPase subunit a, Q9SJT7, At2g21410

Host Rabbit

Clonality Polyclonal

Purity Serum

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 lable.

Antibodies will detect target protein in a few µg of a crude preparation loaded per well. If purified preparations of vacuolar membranes are used, one µg load per well should be sufficient.

Protocol of isolation of plant vacuolar membranes can be found here.

Application information

Recommended dilution 1:8000 (ELISA), 1:2000 (WB)

Expected | apparent

AVV.

93 | 100 kDa (*Arabidopsis thaliana*)

Predicted reactivity Chlamydomonas reainhardtii, Physcomitrium patens, Populus balsamifera, Ricinus communis, Vitis vinifera

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 -20° C to -80° C.

Selected references

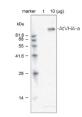
Xing et al. (2016). Proteome Profile of Starch Granules Purified from Rice (Oryza sativa) Endosperm. PLoS One. 2016 Dec 19;11(12):e0168467. doi: 10.1371/journal.pone.0168467.

Migocka et al. (2013). NO3 (-)/H(+) Antiport in the Tonoplast of Cucumber Root Cells Is Stimulated by Nitrate Supply: Evidence for a Reversible Nitrate-Induced Phosphorylation of Vacuolar NO3 (-)/H(+) Antiport.PLoS One. 2013 Sep 11;8(9):e73972. doi: 10.1371/journal.pone.0073972.

<u>Fumiyoshi</u> et al. (2005). Novel type aquaporin SIPs, are mainly localized the ER membrane and show cell-specific expression in Arabidopsis thaliana. FEBS Lett. 579: 5814-58200.

<u>Yoshihiro</u> et al. (2004). Zinc transporter of Arabidopsis thaliana AtMTP1 is localized to vacuolar membranes and implicated in zinc homeostasis. Plant Cell Physiol. 45: 1749-1758.

Application example





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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, a (AS09 466, 1:2000, 1h) and secondary anti-rabbit (1:2000, 1 h). All steps were performed in RT with agitation.