

Product no **AS09 468****V-ATPase, c | Vacuolar H⁺-ATPase, subunit c (16 kDa)****Product information**

Immunogen | KLH-conjugated synthetic peptide derived from *Arabidopsis thaliana* V-ATPase subunit c UniProt: [Q6IDA4](#), TAIR: [AT2G16510](#)

Host | Rabbit

Clonality | Polyclonal

Purity | Immunogen affinity purified serum in PBS pH 7.4.

Format | Lyophilized

Quantity | 50 µg

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 | Subunit c is one of most hydrophobic proteins (can be dissolved in organic solvent such as a mixture of chloroform/methanol solution). It is prone to aggregation even in the presence of SDS. **Therefore, before loading on the gel membrane fractions should be incubated in buffer containing 2 % SDS at 60° or 70° C for 10 min or at 25° C for 30 min.**

Application information

Recommended dilution | 1 : 1000 (WB)

Expected | apparent MW | 16 | 16 kDa (*Arabidopsis thaliana*)

Confirmed reactivity | *Arabidopsis thaliana*, *Mesembryanthemum crystallinum*, *Nicotiana tabacum*

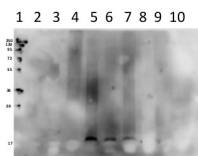
Predicted reactivity | dictos including: *Cucumis sativus*, *Gossypium mexicanum*, *Manihot esculenta*, *Phaseolus aureus*, *Raphanus sativus*, *Rcicinus communis*, monocots including: *Oryza sativa*, *Triticum aestivum*, *Zea mays*, trees: *Picea sitchensis*, *Populus trichocarpa*

Species of your interest not listed? [Contact us](#)

Not reactive in | Algae

Additional information | Protein or membrane sample should be treated at 70°C for 10 min before loading on the gel

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.

Application example

Following samples were analyzed: MW markers (1), *Arabidopsis thaliana* tonoplast (2), *Arabidopsis thaliana* plasma membrane (3), *Arabidopsis thaliana* microsomes (4), *Arabidopsis thaliana* total protein (5), *Mesembryanthemum crystallinum* tonoplast (6), *Mesembryanthemum crystallinum* plasma membrane (7), *Mesembryanthemum crystallinum* microsomes (8), *Nicotiana tabacum* microsomes (9), *Brassica napus* microsomes (10). 15 µg of the indicated protein, extracted according to [Vera-Estrella](#) et al. (2012) was separated on 12% SDS-PAGE and blotted 1.5h to PVDF using tank transfer. Blots were blocked with for 1h at room temperature (RT) with agitation. Blot was incubated in the primary antibody at a dilution of 1 : 1 000 O/N at RT with agitation. The antibody solution was decanted and the blot was washed 3X for 15 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 1:50 000 in for 2h at RT with agitation. The blot was washed as above and developed using chemiluminescent substrated and recorder using the LiCOR c-DIGIT personal imager.



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

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