V-ATPase | Epsilon subunit of tonoplast H+ATPase (affinty purified, goat antibody)

CD BioSciences
Plant Protein

Cat *PA00581*

Size *200 µg*

Host
Goat

Clonality
Polyclonal

Confirmed reactivity
Arabidopsis thaliana, Avena strigosa, Medicago truncatula, Nicotiana tabacum, Oryza sativa, Solanum lycopersicum

Immunogen
KLH-conjugated synthetic peptide chosen from subunit E of plant V-ATPase including Arabidopsis thaliana At4g11150. Peptide is conserved in vacuolar H+-ATPase subunit E, isoform 1 to 3 (VHA-E1).

Host
Goat

Clonality
Polyclonal

Purity
Immunogen affinity purified serum in PBS pH 7.4.

Format
Lyophilized

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.

Application
Immunofluorescence (IF), Western blot (WB)

Recommended dilution
1: 600 (IF), 1 : 1000-1 : 3000 (WB)

Expected | apparent MW
26 | 31 kDa (Arabidopsis thaliana)

Confirmed reactivity
Arabidopsis thaliana, Avena strigosa, Medicago truncatula, Nicotiana tabacum, Oryza sativa, Solanum lycopersicum

Predicted reactivity
Algae, Chlamydomonas reinhardtii, Hordeum vulgare, Malus domestica, Mesembryanthemum sp., Petunia sp.,Phaseolus sp. , Physcomitrium patens, Pteris vittata (fern), Ricinus communis, Thellungiella sp., Zea mays,

Address: SUITE 209, 17 Ramsey Road, Shirley, NY 11967
Tel: 1-631-637-0420
E-mail: info@cd-biosci.com
https://www.cd-biosciences.com/plant-protein/

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Vitis vinifera Bull frog, Chicken, Bovine, Drosophila melanogaster, Human, Mouse, Rat

Not reactive in

No confirmed exceptions from predicted reactivity are currently known

Additional information

V-ATPase is very sensitive for the redox of the SDS buffer. We recommend using at least 50-100 mM DTT freshly prepared before handling the sample. 2 hours incubation with primary antibody is recommended over over night incubation which can contribute to increased background.

Description

Plant vacuole V-ATPase is responsible for energy transport of ions and metabolites and acts as a "steward" and stress response enzyme. V-atpase is a multisubunit enzyme composed of membrane region and cytoplasmic catalytic region. It is related to FoF1 ATP synthase. Replacement protein name: vacuolar proton pump subunit E, protein Embryo defect 2448

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