

H⁺ATPase | Plasma membrane H⁺ATPase (chicken antibody)



Cat. No. APA-GA-204

Lot. No. (See product label)

Product Name

H⁺ATPase | Plasma membrane H⁺ATPase (chicken antibody)

Host

Chicken

Immunogen

KLH-conjugated synthetic peptide derived from available di and monocot, fern, mosses and algal plasma membrane ATPase sequences including Arabidopsis thaliana ATPase 1 (At2g18960) and ATPase 2,3,4,6,7,8,9 of Arabidopsis thaliana and hydrogen ATPase of Chlamydomonas reinhardtii (Q9FNS3).

Background

The Plasma Membrane H⁺ATPase is a family of proteins of ca. 100 kDa that are believed to be exclusive to the plasma membranes of plants and fungi. The protein is anchored within biological membrane which creates an electrochemical gradient used as an energy source and is essential for uptake of most metabolites and plant responses to environment, for example movement of leaves.

Format

Lyophilized

Clonality

Polyclonal

Purity

Immunogen affinity purified IgY in PBS pH 7.4.

Quantity

50 µg

Reactivity

Global antibody for di- and monocots, conifers, ferns, mosses, green algae cellular [compartment marker] for plasma membrane

Confirmed reactivity

Arabidopsis thaliana, Spinacia oleracea, Zea mays

Predicted reactivity

Angomonas deanei, Avena sativa, Brassica napus, Citrus limon, Coffea canephora, Cucumis sativus, Cucurbita moschata, Dunaliella spp, Eichhornia crassipes, Emiliana huxleyi, Glycine max (weak), Hordeum vulgare, Lactobacillus johnsonii, Laishmania braziliensis, Nicotiana tabacum, Oryza sativa, Solanum lycopersicon, Solanum tuberosum, Medicago truncatula, Mesembrianthemum crystallinum), Nannochloropsis gaditana CCMP526, Nepenthes alata, Nicotiana tabacum, Nitrospira bacterium, Oryza sativa, Ostreococcus spp., Phaseolus acutifolius, Physocomitrella patens, Picea abies, Pinus thunbergii, Populus tremula, Pteris vittata, Ricinus communis, Saccharomyces cerevisiae, Solanum lycopersicum, Strigomonas culicis, Toxoplasma gondii, Triticum urartu, Trypanosoma cruzi, Zosteria marina, Vicia faba, Vigna angularis

Reconstitution

For reconstitution add 50 µl of sterile water

Expected/apparent MW

95 kDa (Arabidopsis thaliana)

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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Tested applications

Western blot (WB)

Recommended dilution

1 : 1000-1 : 5000 (WB)

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.

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