

H⁺ATPase | Plasma membrane H⁺ATPase (rabbit antibody), ALP-conjugated (40 µg)



Cat. No. APA-GA-197

Lot. No. (See product label)

Product Name

H⁺ATPase | Plasma membrane H⁺ATPase (rabbit antibody), ALP-conjugated (40 µg)

Host

Rabbit

Immunogen

KLH-conjugated synthetic peptide, derived from available di and monocot, fern, mosses and algal plasma membrane ATPase sequences including Arabidopsis thaliana ATPase 1 (UniProt: P20649, TAIR: At2g18960) and ATPase 2 (UniProt: P19456, TAIR: At4g30190), 3 (UniProt: P20431, TAIR: At5g57350), 4 (UniProt: Q9SU58, TAIR: At3g47950), 6 (UniProt: Q9SH76, TAIR: At2g07560), 7 (UniProt: Q9LY32, TAIR: At3g60330), 8 (UniProt: Q9M2A0, TAIR: At3g42640), 9 (UniProt: Q42556, TAIR: At1g80660), 11 (UniProt: Q9LV11, TAIR: At5g62670) 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. This antibody is directly conjugated to ALP.

Format

Liquid

Clonality

Polyclonal

Purity

Antigen affinity purified serum in PBS pH 7.4, conjugated to ALP.

Quantity

40 µg

Reactivity

Global antibody for di- and monocots, conifers, ferns, mosses, green algae

Confirmed reactivity

Actinidia chinensis, Aesculus hippocastanum, Arabidopsis thaliana, Camellia sinensis cv. Shu-chazao, Chara australis R.Br, Chlamydomonas reinhardtii, Cucumis sativus, Cucurbita moschata, Glycine max, Kandelia obovata, Hordeum vulgare, Lolium perenne, Lycopersicon esculentum, Malus x domestica Borkh. c.v. Fuji, Marchantia polymorpha, Medicago truncatula, Nicotiana benthamiana, Nicotiana tabacum, Noccaea caerulea, Oryza sativa, Petunia hybrida, Phalenopsis Sogo Yukidian cultivar V3, Physcomitrium patens, Picea abies, Pisum sativum, Populus tremula, Pteris vittata (fern), Ricinus communis, Spinacia oleracea, Solanum lycopersicum, Tagetes erecta, Tetraselmis chuii, Zea mays, Vicia faba

Predicted reactivity

Algae, Amaranthus hypochondriacus, Avena sativa, Beta vulgaris, Cyanidioschyzon merolae, Dunaliella spp., Gossypium hirsutum, Hordeum vulgare, Ostreococcus spp., Pinus thunbergii, Physcomitrella patens, Mesembryanthemum crystallinum, Mortierella elongata, Nannochloropsis gaditana CCMP526, Ostreococcus tauri, Prosopis alba, Saccharomyces cerevisiae, Solanum tuberosum, Sorghum bicolor, Spinacia oleracea, Triticum aestivum, Ulva prolifera, Ustilago maydis

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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Not reactive in

Allium sp., Aspergillus niger, Citrus limon, Colobanthus apetalus, Cuminum cyminum, Curcuma amada, Deschampsia antractica, Lupinus luteus, Morinda citrifolia, Trigonella foenum, Vicia faba

Expected/apparent MW

90- 95 kDa (Arabidopsis thaliana, depending upon an isoform)

Tested applications

Immunolocalization (IL), Western blot (WB)

Recommended dilution

1 : 100 (IL), 1 : 1000-1 : 5000 (WB)

Storage

Store at 4°C for 12-18 months. A preservative may be added for long time storage up to 2 years.

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