

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

Qty: AS07 260B



AS07 260B | Clonality: **Polyclonal** | Host: **Rabbit** | Reactivity: **[global antibody]** for di- and monocots, conifers, ferns, mosses, green algae | Cellular **[compartment marker]** for plasma membrane

Benefits of using this antibody

Price: 505 €

Agrisera Western Blot protocol and video tutorials

Protocols to work with plant and algal protein extracts

Plasma membrane protein isolation protocol

• Product Info

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](#))

Host: Rabbit

Clonality: Polyclonal

Purity: Antigen affinity purified serum in PBS pH 7.4, conjugated to Biotin.

Format: Liquid

Quantity: 40 µg

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

Tested applications: Immunolocalization (IL), Western blot (WB)

Recommended dilution: 1 : 100 (IL), 1 : 1000-1 : 5 000 (WB)

Expected | apparent MW: 90- 95 kDa (*Arabidopsis thaliana*, depending upon an isoform)

• Reactivity

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*

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

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*

- Additional Information

- Additional information: Cellular [compartment marker] for plasma membrane
VERY IMPORTANT: Please, do not heat up your samples above 70°C as this may cause H+ATPase to precipitate, and there will be no signal on your Western Blot.

Additional information (application): Before SDS-PAGE, centrifuge your samples at room temperature at 10 000 rpm/1 min to remove any aggregates.

H+ATPase will be less abundant in mature roots and leaves, and therefore detection may require use of very sensitive reagents.

- 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.

Background:

This antibody is directly conjugated to Biotin.