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Product no AS07 260-DL594

H+ATPase | Plasma membrane H+ATPase (rabbit antibody), DyLight® 594 conjugated (40 µg)

Product information

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 DyLight® 594.
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.
Additional information	Cellular [compartment marker] for plasma membrane. DyLight® 594 has Amax = 593 nm, Emax = 618 nm. DyLight® is a registered trademark of Thermofisher Inc., and its subsidiaries.

Application information

Recommended dilution	1 : 600-1 : 1000 (IF), 1 : 1000-1 : 5 000 (WB)
Expected | apparent MW	90- 95 kDa (*Arabidopsis thaliana,* depending upon an isoform)
Confirmed reactivity	*Actinidia chinensis, Aesculus hippocastanum*, *Arabidopsis thaliana*, *Camellia sinensis* cv. Shu-chazao, *Chara australis* R.Br, *Chlamydmonas 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 caerulescens, 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, Physocomitrella patens, Mesembruanthemum 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 apetala, Cuminium cyminum, Curcuma amada, Deschampsia antractica, Lupinus luteus, Morinda citrifolia, Trigonella foenum, Vicia faba*
Additional information	**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.** 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 leafs, and therefore detection may require use of very sensitive reagents.
Selected references	To be added when available. Antibody released in October 2023.