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Product no AS13 2671

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

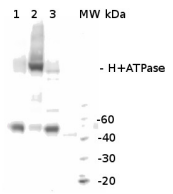
Product information

Immunogen	KLH-conjugated synthetic peptide derived from available di and monocot, fern, mosses and algal plasma membrane ATPase sequences including *Arabidopsis thaliana* ATPase 1 (At2g18960) and ATPase 2,3,4,6,7,8,9 of *Arabidopsis thaliana* and hydrogen ATPase of *Chlamydomonas reinhardtii* (Q9FNS3)
Host	Chicken
Clonality	Polyclonal
Purity	Immunogen affinity purified IgY in PBS pH 7.4.
Format	Lyophilized
Quantity	50 µg
Reconstitution	For reconstitution add 50 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.
Additional information	Cellular [compartment marker] for plasma membranetissue specific immunolocalization was done on paraffin emdedded samples as described here

Application information

Recommended dilution	1 : 1000-1 : 5000 (WB)
Expected | apparent MW	95 kDa (*Arabidopsis thaliana*)
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, Laishamania braziliensis, Nicotiana tabacum, Oryza sativa, Solanum lycopersicon, Solanum tuberosum, Medicago truncatula, Mesembruanthemum crystallinum), Nannochloropsis gaditana* CCMP526*, Nepenthes alata, Nicotiana tabaccum, 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* Species of your interest not listed? Contact us
Additional information	VERY IMPORTANT: please, do not heat up your samples over 70°C as this might cause H+ATPase to precipitate and there will be no signal on your western blot

application example



10 µg of total protein from whole leaf extracts of *Arabidopsis thaliana* **(1),** *Zea mays* **(2),** *Spinacia oleracea* **(3),** extracted with **P**rotein **E**xtration **B**uffer, PEB (**AS08 300**), were boiled for 10 min. in 70°C and separated on **4-12%** NuPage (Invitrogen) **LDS-PAGE** and blotted 1h to **PVDF**. Blots were blocked immediately following transfer in 2% ECL blocking reagent (GE Healthcare) in 20 mM Tris, 137 mM sodium chloride pH 7.6 with 0.1% (v/v) Tween-20 (TBS-T) for 1h at room temperature with agitation. Blots were incubated in the primary antibody at a dilution of 1: 2 500 for 1h at room temperature with agitation. The antibody solution was decanted and the blot was rinsed briefly twice, then washed once for 15 min and 3 times for 5 min in TBS-T at room temperature with agitation. Blots were incubated in secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated, recommended secondary antibody AS10 1489) diluted to 1:25 000 for 1h at room temperature with agitation. The blots were washed as above and developed for 5 minutes according the manufacturers instructions. Images of the blots were obtained using a CCD imager (FluorSMax, Bio-Rad) and Quantity One software (Bio-Rad).