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Product no AS09 577

V-ATPase | Epsilon subunit of tonoplast H+ATPase (goat antibody)

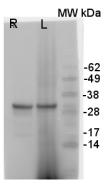
Product information

Immunogen	KLH-conjugated synthetic peptide chosen from subunit E of plant V-ATPase including *Arabidopsis thaliana* At4g11150. Peptide is conserved in vacuolar H+-ATPase subunit E, isoform 1 to 3 (VHA-E1).
Host	Goat
Clonality	Polyclonal
Purity	Serum
Format	Lyophilized
Quantity	300 µl
Reconstitution	For reconstitution add 300 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.

Application information

Recommended dilution	1 : 1000-1 : 3000 (WB)
Expected | apparent MW	26 | 31 kDa (*Arabidopsis thaliana*)
Confirmed reactivity	*Arabidopsis thaliana, Avena strigosa, Nicotiana tabacum, Solanum lycopersicum*
Predicted reactivity	Algae, *Chlamydomonas reinhardtii, Hordeum vulgare, Malus domestica, Mesembryanthemum sp., Oryza sativa, Petunia sp.,Phaseolus sp. , Physcomitrium patens, Pteris vittata* (fern), *Ricinus communis, Thellungiella sp., Zea mays, Vitis vinifera* Bull frog, Chicken, Bovine, *Drosophila melanogaster*, Human, Mouse, Rat Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Additional information	V-ATPase is very sensitive for the redox of the SDS buffer. We recommend using at least 50-100 mM DTT freshly prepared before handling the sample. 2 hours incubation with primary antibody is recommended over over night incubation which can contribute to increased background.
Selected references	McLoughlin et al. (2012). TheSnf1-relatedproteinkinasesSnRK2.4 andSnRK2.10 areinvolved inmaintenance ofrootsystemarchitecture duringsaltstress. Plant J. June 2012.

Application example



6 µg of total SDS-extracted protein from *Avena strigosa* roots (R) and leaves (L) , were separated on NuPage LDS-PAGE 4-12% gradient acrylamide gel (Invitrogen) and blotted 1h to nitrocellulose. Filters were blocked 1h with 5% low-fat milk powder in TBS and probed with anti-V-ATPase antibodies (AS09 577 , 1:2000, 1h) and secondary anti-goat (1:5000, 1 h) antibody in TBS containing 5% low fat milk powder. Antibody incubations were followed by washings in TBS-T (containing 0.05% Tween-20, 0.1% Triton X-100) . All steps were performed at RT with agitation. Blots were scanned with a Typhoon scanner.

Courtesy Dr. Sam Mugford (JIC), UK