

# Anti-V-type proton ATPase subunit a2/3 antibody

Catalog: PHY0173S

## Product Information

<b>Description:</b>	Rabbit polyclonal antibody
<b>Background:</b>	In eukaryotic cells, compartments of the highly dynamic endomembrane system are acidified to varying degrees by the activity of vacuolar H(+)-ATPases (V-ATPases). In the <i>Arabidopsis thaliana</i> genome, most V-ATPase subunits are encoded by small gene families, thus offering potential for a multitude of enzyme complexes with different kinetic properties and localizations. Nitrate content is reduced whereas nitrate assimilation is increased in the vha-a2 vha-a3 mutant, indicating that vacuolar nitrate storage represents a major growth-limiting factor.
<b>Synonyms:</b>	VHA-a2/3, V-ATPase subunit a2/3, VACUOLAR PROTON ATPASE A2/3
<b>Immunogen:</b>	KLH-conjugated synthetic peptide of VHA-a2/3 derived from <i>Arabidopsis thaliana</i> AT2G21410, AT4G39080.
<b>Form:</b>	Lyophilized
<b>Quantity:</b>	150 µg
<b>Purification:</b>	Serum  Peptide affinity form antibody available upon request at <a href="mailto:info@phytoab.com">info@phytoab.com</a> .
<b>Reconstitution:</b>	Reconstitution with 150 µl of sterile water.  "Note: please spin tube briefly prior to opening it to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tube".
<b>Stability &amp; Storage:</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.  12 months from date of receipt, -20 to -70°C as supplied.  6 months, -20 to -70°C under sterile conditions after reconstitution.  1 month, 2 to 8°C under sterile conditions after reconstitution.
<b>Shipping:</b>	The product is shipped at 4°C. Upon receipt, store it immediately at the temperature recommended above.

## Application Information

<b>Recommended Dilution:</b>	Western Blot (1:1000-1:2000)  Note: Optimal dilutions/concentrations should be determined by the end user.
------------------------------	--

Research Use Only

**Expected/apparent MW:** 93 kDa

**Confirmed Reactivity:** Coming soon

**Predicted Reactivity:** Among 25 analyzed species, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in *Brassica napus*, and 80-99% homologues with the sequence in *Oryza sativa Japonica Group*, *Populus trichocarpa*, *Solanum lycopersicum*, *Sorghum bicolor*, *Zea mays*, *Glycine max*.  
For more species homologues information, please contact tech support at [tech@phytoab.com](mailto:tech@phytoab.com).