

Anti-Gamma carbonic anhydrase 1/3, mitochondrial, N-terminal antibody

Catalog: PHY3701S

Product Information

Description:	Rabbit polyclonal antibody
Background:	Complex I is the largest protein complex of the oxidative phosphorylation system in mitochondrial and it catalyzes NADH-quinone oxidoreduction. Complex I represents the main entrance site for electrons into the respiratory electron transfer chain. In Arabidopsis, Complex I have at least 49 subunits and CA3 (AT5G66510) is one of the subunit. CA2 (AT1G47260) and CA1 (AT1G19580) are also the subunits of Complex I.
Synonyms:	GAMMA CA1/3, GAMMA CARBONIC ANHYDRASE 1/3, CA1/3
Immunogen:	KLH-conjugated synthetic peptide (14 aa from N terminal section) derived from <i>Arabidopsis thaliana</i> GAMMA CA1 (AT1G19580) and GAMMA CA3 (AT5G66510).
Form:	Lyophilized
Quantity:	150 µg
Purification:	Serum Peptide affinity form antibody available upon request at info@phytoab.com .
Reconstitution:	Reconstitution with 150µl 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".
Stability & Storage:	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.
Shipping:	The product is shipped at 4°C. Upon receipt, store it immediately at the temperature recommended above.

Application Information

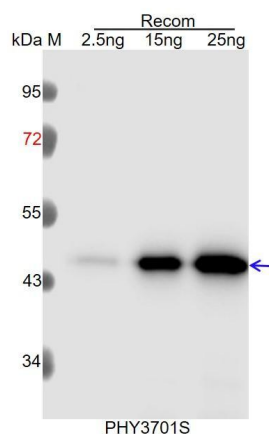
Recommended Dilution:	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
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Research Use Only

Expected / apparent MW: 30 kDa

Predicted Reactivity: Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in *Brassica napus*, *Zea mays*, *Gossypium raimondii*, *Populus trichocarpa*, *Nicotiana tabacum*, *Cucumis sativus*, *Solanum tuberosum*, *Solanum lycopersicum*, *Brassica rapa*, *Hordeum vulgare*, *Setaria viridis*, *Sorghum bicolor*, *Oryza sativa*, *Spinacia oleracea*, *Panicum virgatum*, and 80-99% homologues with the sequence in *Spinacia oleracea*, *Vitis vinifera*, *Physcomitrium patens*, *Glycine max*, *Medicago truncatula*.
For more species homologues information, please contact tech support at tech@phytoab.com.

Application Example



Recom: 2.5 ng, 15 ng and 25 ng recombinant protein containing the peptide for immunization and having a molecular mass of 46 kDa.

Electrophoresis: 12% SDS-PAGE

Transfer: blotting to NC (nitrocellulose) membrane for 1 h.

Blocking: 5% skim milk at RT or 4°C for 1 h.

Primary antibody: 1:1000 dilution overnight at 4°C.

Secondary antibody: 1:10000 dilution using Goat Anti-Rabbit IgG H&L (HRP) (Cat# PHY6000).

Detection: using chemiluminescence substrate and image were captured with CCD camera.