

Anti-Serine hydroxymethyltransferase 1/2, mitochondrial antibody

Catalog: PHY2884S

Product Information

Description:	Rabbit polyclonal antibody
Background:	Serine hydroxymethyltransferases (SHMs) are important enzymes of cellular one-carbon metabolism and are essential for the photorespiratory glycine-into-serine conversion in leaf mesophyll mitochondria. SHM1 catalyzes the conversion of serine and tetrahydrofolate to glycine and 5,10-methylene tetrahydrofolate. And SHM2 is thought to be localized in the mitochondrial matrix.
Synonyms:	SHM1/2
Immunogen:	KLH-conjugated synthetic peptide (15 aa from N terminal section) derived from <i>Arabidopsis thaliana</i> SHM1 (AT4G37930), SHM2 (AT5G26780).
Form:	Lyophilized
Quantity:	150 µg
Purification:	Serum Peptide affinity form antibody available upon request at info@phytoab.com .
Reconstitution:	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".
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

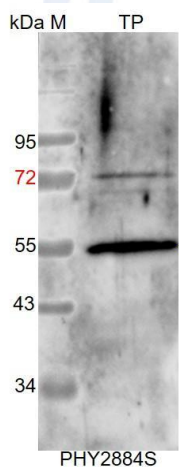
Expected / apparent MW: 57 / 55 kDa

Confirmed Reactivity: *Arabidopsis thaliana*

Predicted Reactivity: Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in *Glycine max*, *Brassica rapa*, *Brassica napus*, *Triticum aestivum*, *Panicum virgatum*, *Nicotiana tabacum*, *Oryza sativa*, *Physcomitrium patens*, *Chlamydomonas reinhardtii*, *Populus trichocarpa*, *Spinacia oleracea*, *Solanum tuberosum*, *Cucumis sativus*, *Solanum lycopersicum*, *Vitis vinifera*, *Medicago truncatula*, *Gossypium raimondii*, *Setaria viridis*, *Zea mays*, *Sorghum bicolor*, *Hordeum vulgare*.

For more species homologues information, please contact tech support at tech@phytoab.com.

Application Example



TP: 20 µg total protein from *Arabidopsis thaliana*.

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 &L (HRP) (Cat# PHY6000).

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