

Anti-SHM1, mitochondrial antibody

Catalog: PHY2883S

Product Information

Description:	Rabbit polyclonal antibody
Background:	SHM1 is a protein with mitochondrial serine hydroxymethyltransferase activity, which functions in the photorespiratory pathway, catalyzes the conversion of serine and tetrahydrofolate to glycine and 5,10-methylene tetrahydrofolate.
Synonyms:	SHM1, SERINE HYDROXYMETHYLTRANSFERASE 1, SERINE TRANSHYDROXYMETHYLTRANSFERASE, SERINE TRANSHYDROXYMETHYLTRANSFERASE 1, SHMT1, STM
Immunogen:	KLH-conjugated synthetic peptide (16 aa from Central Section) derived from <i>Arabidopsis thaliana</i> SHM1 (AT4G37930).
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.
Expected / apparent MW:	57 kDa
Predicted Reactivity:	Among species analyzed, the sequence of the synthetic peptide used

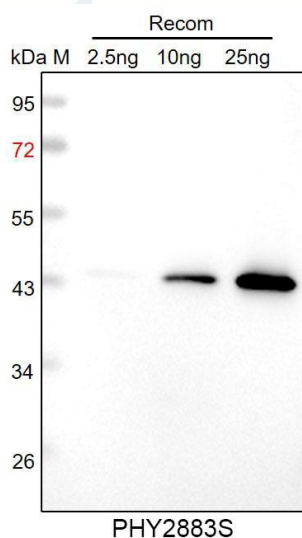
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for immunization is 100% homologues with the sequence in *Brassica napus*, *Brassica rapa*, *Nicotiana tabacum*, *Spinacia oleracea*, *Cucumis sativus*, *Solanum tuberosum*, *Solanum lycopersicum*, *Medicago truncatula*, and 94% homologues with the sequence in *Glycine max*, *Vitis vinifera*, *Physcomitrium patens*, *Populus trichocarpa*, *Gossypium raimondii*, *Setaria viridis*, *Triticum aestivum*, *Oryza sativa*, *Panicum virgatum*, *Zea mays*, *Sorghum bicolor*, *Hordeum vulgare*.

The sequence of the synthetic peptide used for immunization is 94% homologues with the sequence in AT5G26780 and 87% with AT4G32520.

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

Application Example



Recom: 2.5 ng, 10 ng and 25 ng recombinant protein containing the peptide for immunization and having a molecular mass of 44 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.