Anti-SHM1, mitochondrial antibody

Catalog: PHY2883A

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 *Arabidopsis thaliana* SHM1 (AT4G37930).
Form:	Lyophilized
Quantity:	150 µg
Purification:	Immunogen affinity purified
Reconstitution:	Reconstitution with 150 µl of sterile 1XPBS (PH=7.4) containing 30% glycerol. "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℃ as supplied. 6 months, -20 to -70℃ under sterile conditions after reconstitution. 1 month, 2 to 8℃ under sterile conditions after reconstitution.
Shipping:	The product is shipped at 4℃. 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 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.