

Anti-Serine hydroxymethyltransferase (SHMT) antibody

Catalog: PHY0071A

Product Information

Description: Rabbit polyclonal antibody

Background: Serine hydroxymethyltransferase (SHMT) catalyzes the reversible conversion

of serine and tetrahydrofolate (THF) to glycine and 5,10-methylene THF. The

Arabidopsis genome contains seven genes (SHM1 to SHM7).

Synonyms: SHMT

Immunogen: KLH-conjugated synthetic peptide (15 aa from Central section) derived from

Zea mays SHMT (Zm00001d042661).

Form: Lyophilized

Quantity: 150 μg

Purification: Immunogen affinity purified

Reconstitution: Reconstitution with 150 µl of 0.01 M sterile PBS.

"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 &Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

Storage: 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℃ 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: 64 / 52 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 Zea

mays, Oryza sativa, Sorghum bicolor, and 80-99% homologues with



the sequence in *Triticum aestivum*, *Hordeum vulgare*, *Glycine max*, *Brassica rapa*, *Brassica napus*, *Panicum virgatum*, *Setaria viridis*, *Populus trichocarpa*, *Sorghum bicolor*, *Physcomitrium patens*, *Gossypium raimondii*, *Solanum tuberosum*, *Medicago truncatula*, *Vitis vinifera*, *Spinacia oleracea*.

The sequence of the synthetic peptide used for immunization is 93% homologues with the sequence in the SHM5 (AT4G13890), 87% with SHM4 (AT4G13930), 80% with SHM6 (AT1G22020) in *Arabidopsis* thaliana.

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

Application Example

ТР Str kDa M 50µg 80µg 8.8µg 11µg 95 60 40 30 25 15 PHY0071A TP: 50 µg 80 µg and total protein from Arabidopsis thaliana leaf.

Str: 8.8 µg and 11 µg stromal protein from Arabidopsis thaliana leaf.

Electrophoresis: 15% SDS-Urea-PAGE

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

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

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

Secondary antibody: 1:20000 dilution using Goat Anti-Rabbit IgG

H&L (HRP) (Cat# PHY6000).

Detection: using chemiluminescence substrate and image were

captured with CCD camera.