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Datasheet for ABIN5706931

## anti-SHMT1 antibody

1 Image

1 Publication

### Overview

Quantity:	0.5 mg
Target:	SHMT1
Reactivity:	Vicia faba, Pisum sativum, Spinach, Arabidopsis thaliana
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB)

### Product Details

Immunogen:	Purified SHMT protein from Spinacia oleracea
Isotype:	IgG
Specificity:	The antibody is very specific for salmonid inducible form - hsp70.
Cross-Reactivity (Details):	Not reactive in: no confirmed exceptions from predicted reactivity known in the moment
Predicted Reactivity:	dicots including: Glycine max, Medicago truncatula, Ricinus communis, Solanum tuberosum, Vitis vinifera, monocots: Hordeum vulgare, trees: Populus balsamifera, algae: Chlamydomonas reinhardii
Characteristics:	Expected / apparent Molecular Weight of the Antigen: 53 kDa (Arabidopsis thaliana)
Purification:	affinity purified

### Target Details

Target:	SHMT1
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## Target Details

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Alternative Name: SHMT ([SHMT1 Products](#))

Background: Serine hydroxymethyltransferase (SHMT) is part of the mitochondrial enzyme complex.

Molecular Weight: 53 kDa (*Arabidopsis thaliana*)

## Application Details

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Application Notes: 1:5 000 with standard ECL (WB)

Comment: this antibody can be used on total leaf extracts and isolated mitochondria

Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Reconstitution: For reconstitution add 200 µL of sterile water.

Buffer: PBS pH 7.4

Handling Advice: Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tubes.  
Once reconstituted make aliquots to avoid repeated freeze-thaw cycles.

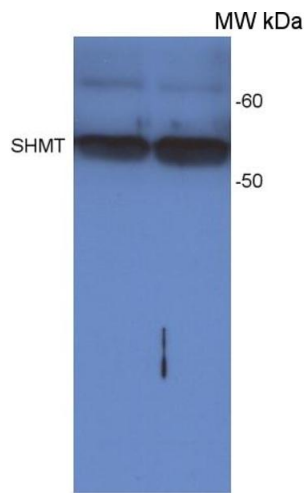
Storage: -20 °C

Storage Comment: store lyophilized/reconstituted at -20°C, once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tubes.

## Publications

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Product cited in: Wei, Sun, Sandoval, Cross, Gordon, Kang, Roje: "Folate polyglutamylation eliminates dependence of activity on enzyme concentration in mitochondrial serine hydroxymethyltransferases from *Arabidopsis thaliana*." in: **Archives of biochemistry and biophysics**, Vol. 536, Issue 1, pp. 87-96, (2013) ([PubMed](#)).



### Western Blotting

**Image 1.** Western Blot detection of SHMT protein in Arabidopsis thaliana leaf extract, loaded on a leaf disc area.