

Datasheet for ABIN5326722

**anti-SMT1 antibody****2** Publications[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	SMT1
Reactivity:	Arabidopsis thaliana
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SMT1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunolocalization (IL)

## Product Details

Immunogen:	KLH-conjugated synthetic peptide derived from Arabidopsis thaliana SMT1 Q9LM02, At5g13710
Cross-Reactivity (Details):	Not reactive in: Hordeum vulgare, Triticum aestivum, Withania somnifera
Predicted Reactivity:	Amborella trichopoda, Brassica napus, Brassica rapa subsp. pekinensis, Capsella rubella, Citrus clementina, Eutrema salsugineum, Glycine max, Glycine soja, Gossypium mexicanum, Medicago truncatula, Populus trichopocarpa, Prunus persica, Ricinus communis, Theobroma cacao, Vitis vinifera,
Characteristics:	Expected / apparent Molecular Weight of the Antigen: 38 kDa
Purification:	affinity purified

## Target Details

Target:	SMT1
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## Target Details

Alternative Name:	Sterol methyltransferase 1 (SMT1)
Background:	<p>AGI Code: At5g13710</p> <p>SMT1 (EC=2.1.1.41) is an enzyme involved in steroid biosynthesis localized specific to the Endoplasmic Reticulum (ER), Boutte et al., 2009 . It is catalyzing the methyl transfer from S-adenosyl-methionine to the C-24 of cycloartenol to form 24-methylene cycloartenol. Alternative names: Cycloartenol-C-24-methyltransferase, 24-sterol C-methyltransferase 1, Protein STEROL METHYLTRANSFERASE 1, Protein CEPHALOPOD</p>
Molecular Weight:	38 kDa
UniProt:	<a href="#">Q9LM02</a>

## Application Details

Application Notes:	1: 500 - 1:1 000 with ECL Advance or + (WB), 1: 50 - 1: 100 (IL)
Comment:	SMT1 antibody characterization in Western Blot and immunofluorescence labeling: Boutté Y et al. (2010). Endocytosis restricts Arabidopsis KNOLLE syntaxin to the cell division plane during late cytokinesis. EMBO J. 29, 5465-5458.
Restrictions:	For Research Use only

## Handling

Format:	Lyophilized
Reconstitution:	For reconstitution add 200 µL of sterile water.
Handling Advice:	<p>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.</p> <p>Once reconstituted make aliquots to avoid repeated freeze-thaw cycles.</p>
Storage:	-20 °C
Storage Comment:	store lyophilized/reconstituted at -20C, 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

Product cited in:	Zhang, Peck: "Simplified enrichment of plasma membrane proteins for proteomic analyses in Arabidopsis thaliana." in: <b>Proteomics</b> , Vol. 11, Issue 9, pp. 1780-8, (2011) ( <a href="#">PubMed</a> ).
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Boutté, Frescatada-Rosa, Men, Chow, Ebine, Gustavsson, Johansson, Ueda, Moore, Jürgens, Grebe: "Endocytosis restricts Arabidopsis KNOLLE syntaxin to the cell division plane during late cytokinesis." in: **The EMBO journal**, Vol. 29, Issue 3, pp. 546-58, (2010) ([PubMed](#)).