

product **AS07 266**

SMT1 | Sterol methyltransferase 1

product information

background	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
immunogen	<u>KLH</u> -conjugated synthetic peptide derived from <i>Arabidopsis thaliana</i> SMT1 <u>Q9LM02</u>
antibody format	rabbit polyclonal affinity purified IgG lyophilized
quantity	200 ug, for reconstitution add 200 ul of sterile water.
storage	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.
tested applications	western blot (WB), immunolocalization (IL)
additional information	SMT1 is an integral membrane protein of ER (Boutte et al., 2009) while BiP is a membrane associated protein.

application information

recommended dilution	1: 500 - 1:1 000 with ECL Advance or + (WB), 1: 50 - 1: 100 (IL)
expected apparent MW	38 kDa
confirmed reactivity	<i>Arabidopsis thaliana</i>
predicted reactivity	dicots including: Glycine max, Gossypium mexicanum, Ricinus communis
not reactive in	no confirmed exceptions from predicted reactivity known in the moment
additional information	to be added when available
selected references	<u>Wang and Benning</u> (2012). TGD4 involved in ER-to chloroplast lipid trafficking is a phosphatidic acid binding protein. Plant J. January 23 (ahead of print). <u>Boutté</u> Y, Rosa M.S.F, Men S, Chow C.M, Ebine K, Gustavsson G, Johansson L, Ueda T, Moore I, Jürgens G, Grebe M (2009). Endocytosis Restricts <i>Arabidopsis</i> KNOLLE Syntaxin To The Cell Division Plane During Late Cytokinesis. EMBO J

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Antibodies for research

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