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product **AS14 2768**

CPT6 | cis-prenyltransferase 6

product information

Background	CPT6 (cis-prenyltransferase 6) belong to a group of enzymes which synthesize isoprenoid hydrocarbon skeleton with isoprenoid units in the cis (Z) configuration. AtCPT6 is one of the nine <i>Arabidopsis thaliana</i> CPTs, which catalyze the synthesis of a family of very short-chain polyisoprenoid alcohols of six, seven, and eight isoprenoid units.
Immunogen	<u>KLH</u> -conjugated synthetic peptide derived from <i>Arabidopsis thaliana</i> CPT6, UniProt.: <u>Q8RX73</u> , TAIR: <u>AT5G58780</u>
Host	Rabbit
Clonality	Polyclonal
Purity	Affinity purified serum
Format	Lyophilized in PBS pH 7.4
Quantity	50 µg
Reconstitution	For reconstitution add 50 µl of sterile water.
Storage	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.
Tested applications	Western blot (WB)
Related products	collection of antibodies to proteins involved in response to cold Plant and algal protein extraction buffer Secondary antibodies
Additional information	Surmacz described this protein in 2011 as AtCPT6. In TAIR is named ATCPT5 and in UniProt: Dehydrodolichyl diphosphate synthase 3.

Application information

Recommended dilution	1 : 1000 (WB)
Expected apparent MW	35 kDa
Confirmed reactivity	<i>Arabidopsis thaliana</i>
Predicted reactivity	please inquire
Not reactive in	No confirmed exceptions from predicted reactivity are currently known.
Additional information	
Selected references	Surmacz et al. (2014). cis-Prenyltransferase AtCPT6 produces a family of very short-chain polyisoprenoids in planta. Biochim Biophys Acta. 2013 Dec 1;1841(2):240-250. doi: 10.1016/j.bbali.2013.11.011.

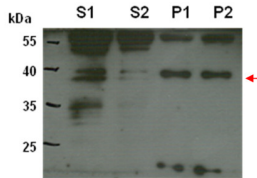
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application example



Microsomal (pellet P) and cytosolic (supernatant S) fractions from *Arabidopsis thaliana* roots were obtained by homogenization in homogenization buffer (50 mM Tris, pH 7.5, 5 mM MgCl₂, 10 μM ZnCl₂, 2 mM DTT, 100 mM NaCl, 250 mM saccharose) containing protease (Complete Mini, Roche) and phosphatase (PhosSTOP, Roche) inhibitor cocktails and centrifugation at 200,000 ×g for 1.5 h. 25 μg of protein were separated on 12 % SDS-PAGE using wet transfer and blotted 1h to ECL nitrocellulose membrane. Blots were blocked with 4% non-fat milk in PBS-T (0.1% Tween-20 in 1× PBS) for 45 min at room temperature (RT) with agitation. Blot was incubated in the primary antibody 50 μg per 1 ml incubation mixture overnight at 4 °C with agitation. The antibody solution was decanted and the blot was rinsed briefly twice, and then washed once for 15 min and 3 times for 5 min in PBS-T at RT with agitation. Blot was incubated in secondary antibody (anti-rabbit Gig horse radish peroxidase conjugated, from) diluted to 1:5 000 in for 1h at RT with agitation. The blot was washed as above and developed for 5 min with ECL according to the manufacturer's instructions. Exposure time was 2 minutes. S1 and S2 cytosolic (supernatant) and P1 and P2 microsomal (pellet) fractions were obtained from two independent experiments. Courtesy Dr. Liliana Surmacz, PAN Poland