

## Anti-1-deoxy-D-xylulose-5-phosphate synthase, chloroplastic antibody

Catalog: PHY0848S

## **Product Information**

Description:	Rabbit polyclonal antibody
Background:	CLA1 is a protein with 1-deoxyxylulose 5-phosphate synthase activity involved
	in the MEP pathway. It is essential for chloroplast development in Arabidopsis.
	It is a limiting enzyme for plastidic isoprenoid biosynthesis and essential for
	chloroplast development.
Synonyms:	CLA1, DXS, AtDXS, DEF, 1-DEOXY-D-XYLULOSE 5-PHOSPHATE (DXP)
	SYNTHASE 1, 1-DEOXY-D-XYLULOSE 5-PHOSPHATE SYNTHASE,
	1-DEOXY-D-XYLULOSE 5-PHOSPHATE SYNTHASE 2, ATCLA1, CLA,
	CLOROPLASTOS ALTERADOS 1, DXPS2, DXS1.
Immunogen:	KLH-conjugated synthetic peptide (17 aa from Central section) derived from
	Arabidopsis thaliana CLA1 (AT4G15560).
Form:	Lyophilized
Quantity:	150 µg
Purification:	Serum
	Peptide affinity form antibody available upon request at <u>info@phytoab.com</u> .
Reconstitution:	Reconstitution with 150 µl of sterile water.
	"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°C under sterile conditions after reconstitution.
Shipping:	The product is shipped at $4^{\circ}$ C. Upon receipt, store it immediately at the
	temperature recommended above.

## **Application Information**

<b>Recommended Dilution:</b>	Western Blot (1:1000-1:2000)
	Note: Optimal dilutions/concentrations should be determined by the
	end user.

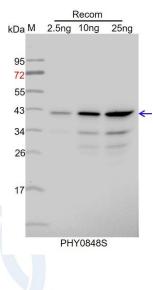
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Expected / apparent MW: Predicted Reactivity: 77 kDa

Among species analyzed, the sequence of the synthetic peptide used for immunization is 80-99% homologues with the sequence in *Brassica napus, Brassica rapa, Glycine max, Vitis vinifera, Gossypium raimondii, Populus trichocarpa, Solanum tuberosum, Solanum lycopersicum, Cucumis sativus, Nicotiana tabacum, Medicago truncatula, Spinacia oleracea.* For more species homologues information, please contact tech support at tech@phytoab.com.

## **Application Example**



Recom: 2.5 ng, 10 ng and 25 ng recombinant protein containing the peptide for immunization and having a molecular mass of 42 kDa.

Electrophoresis: 12% SDS-PAGE

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

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

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

**Secondary antibody:** 1:10000 dilution using Goat Anti-Rabbit IgG H&L (HRP) (Cat# PHY6000).

**Detection:** using chemiluminescence substrate and image were captured with CCD camera.

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