

## Anti-Probable zinc metalloprotease EGY1, chloroplastic antibody

Catalog: PHY2870A

## **Product Information**

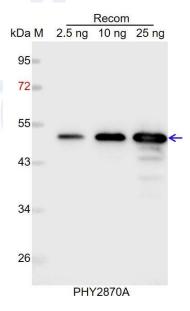
Description:	Rabbit polyclonal antibody	
Background:	Membrane-associated and ATP-independent metalloprotease; EGY1 protei	
	contains eight trans-membrane domains at its C-terminus, and carries out	
	beta-casein degradation in an ATP-independent manner. EGY1 is required for	
	development of both thylakoid grana and a well-organized lamellae system in	
	chloroplast. Additionally, EGY1 is required for the accumulation of chlorophyll	
	and chlorophyll a/b binding (CAB) proteins (both PS I and PS II) in chloroplast	
	membranes, and for grana formation and normal chloroplast development.	
	Loss of EGY1 function also has an effect on endodermal plastid biogenesis.	
	Mutant studies suggest that EGY1 is involved in the regulation of nuclear gene	
	expression response to ammonium stress and interacts with ABA signaling.	
Synonyms:	EGY1, AMMONIUM OVERLY SENSITIVE 1, AMOS1, ENHANCER OF	
	VARIEGATION3, ETHYLENE-DEPENDENT GRAVITROPISM-DEFICIENT	
	AND YELLOW-GREEN 1, EVR3	
Immunogen:	KLH-conjugated synthetic peptide (15 aa from Central section) derived from	
	Arabidopsis thaliana EGY1 (AT5G35220).	
Form:	Lyophilized	
Quantity:	150 µg	
Purification:	Immunogen affinity purified	
<b>Reconstitution:</b>	Reconstitution with 150 µl of sterile 1XPBS (PH=7.4).	
	"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°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.
Expected / apparent MW:	59 kDa
Predicted Reactivity:	Among species analyzed, the sequence of the synthetic peptide used for
	immunization is 100% homologues with the sequence in Brassica napus,
	Brassica rapa, and 80-99% homologues with the sequence in Cucumis
	sativus, Nicotiana tabacum, Solanum lycopersicum, Solanum
	tuberosum, Populus trichocarpa, Spinacia oleracea, Oryza sativa,
	Gossypium raimondii, Setaria viridis, Zea mays, Sorghum bicolor,
	Panicum virgatum.
	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 50 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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