

Anti-PLASTID TRANSCRIPTIONALLY ACTIVE 2 antibody

Catalog: PHY2528A

Product Information

Description:	Rabbit polyclonal antibody	
Background:	In chloroplasts, transcription of plastid genes is mediated by two types of RNA	
	polymerase: plastid-encoded RNA polymerase (PEP) and nuclear encoded	
	RNA polymerase (NEP). Transcription in plastids is also mediated by a number	
	of nuclear-encoded factors in addition to PEP and NEP. In the insoluble RNA	
	polymerase preparation samples, a total of 18 components named as pTACs	
	(pTAC1 to pTAC18) were identified. pTAC2 (AT1G74850) is one of the	
	components associated with PEP complex.	
Synonyms:	pTAC2, PDE343, PIGMENT DEFECTIVE 343, PLASTID	
	TRANSCRIPTIONALLY ACTIVE 2, PTAC2	
Immunogen:	KLH-conjugated synthetic peptide (16 aa from N terminal section) derived from	
	Arabidopsis thaliana pTAC2 (AT1G74850).	
Form:	Lyophilized	
Quantity:	150 µg	
Purification:	Immunogen affinity purified	
Reconstitution:	Reconstitution with 150 μ l of 0.01 M sterile PBS.	
	"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 $^\circ \!\! \mathbb{C}$ as supplied.	
	6 months, -20 to -70 $^\circ\!\!\!\!\!^\circ$ under sterile conditions after reconstitution.	
	1 month, 2 to 8 $^\circ C$ under sterile conditions after reconstitution.	
Shipping:	The product is shipped at 4 $^\circ\!{ m C}$. Upon receipt, store it immediately at the	
	temperature recommended above.	

Application Information

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

Research Use Only



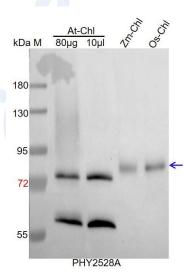
Expected / apparent MW: Confirmed Reactivity: Predicted Reactivity:

96 / 75 kDa

Arabidopsis thaliana, Oryza sativa, Zea mays

Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in *Brassica napus*, *Glycine max*, *Vitis vinifera*, *Sorghum bicolor*, *Setaria viridis*, *Panicum virgatum*, *Brassica rapa*, *Cucumis sativus*, *Medicago truncatula*, *Solanum lycopersicum*, *Nicotiana tabacum*, *Solanum tuberosum*, *Gossypium raimondii*, and 80-99% homologues with the sequence in Hordeum vulgare, *Triticum aestivum*, *Spinacia oleracea*, *Physcomitrium patens*, *Populus trichocarpa*. For more species homologues information, please contact tech support at <u>tech@phytoab.com</u>.

Application Example Example1:



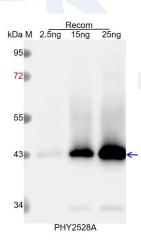
At-ChI: 80 μg and 10 μl total chloroplast protein from *Arabidopsis thaliana*, respectively. Zm-ChI: 5 μl total chloroplast protein from *Zea mays*. Os-ChI: 5 μl total chloroplast protein from *Oryza sativa*. **Electrophoresis:** 10% SDS-PAGE **Transfer:** blotting to NC (nitrocellulose) membrane for 1 h. **Blocking:** 5% skim milk at RT or 4°C for 1 h. **Primary antibody:** 1:2000 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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Example2:



Recom: 2.5 ng, 15 ng and 25 ng recombinant protein containing the peptide for immunization and having a molecular mass of 43 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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