Anti-RNA polymerase subunit beta antibody

Catalog: PHY1701

Product Information

Description:	Mouse monoclonal (Clone:17P12) 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). PEP is composed of four core subunits (α, β,β',β'') and a promoter recognition subunit (σfactor). RpoB (ATCG00190) is the β subunit of PEP.
Synonyms:	RpoB, RNA POLYMERASE SUBUNIT BETA
Immunogen:	Recombinant protein of RpoB (537-1072 aa) derived from *Arabidopsis thaliana* ATCG00190.
Form:	Lyophilized
Quantity:	150 µg
Purification:	Protein A purified
Reconstitution:	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 & Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70℃ as supplied. 6 months, -20 to -70℃ under sterile conditions after reconstitution. 1 month, 2 to 8℃ under sterile conditions after reconstitution.
Shipping:	The product is shipped at 4℃. Upon receipt, store it immediately at the temperature recommended above.

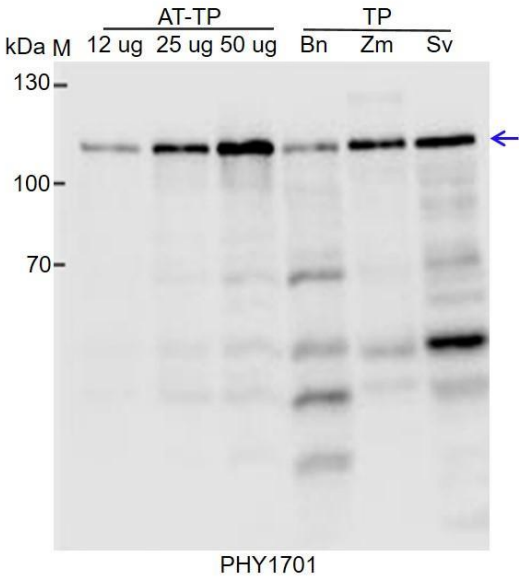
Application Information

Recommended Dilution:	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
Expected / apparent MW:	121 kDa
Confirmed Reactivity:	*Arabidopsis thaliana*, *Brassica napus*, *Zea mays*, *Setaria viridis*, *Oryza sativa*

Predicted Reactivity: For more species homologues information, please contact tech support at tech@phytoab.com.

Application Example

Example 1



AT-TP: 12 μg, 25 μg, 50 μg total protein from *Arabidopsis thaliana*.
TP-Bn: 50 μg total protein from *Brassica napus*.
TP-Zm: 50 μg total protein from *Zea mays*.
TP-Sv: 50 μg total protein from *Setaria viridis*.

Electrophoresis: 8% SDS-PAGE

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

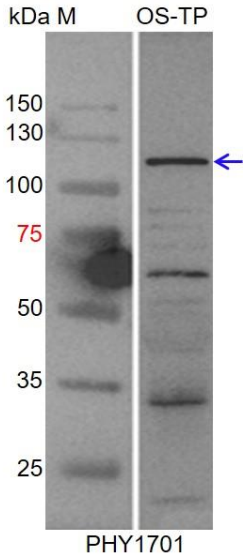
Blocking: 5% skim milk at RT or 4℃ for 1 h.

Primary antibody: 1:1000 dilution overnight at 4℃.

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.

Example 2



OS-TP: 50 μg total 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℃ for 1 h.

Primary antibody: 1:1000 dilution overnight at 4℃.

Secondary antibody: 1:5000 dilution using Goat Anti-Rabbit IgG H&L (HRP) (Cat# PHY6000).

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