

Anti-Rubisco small subunit (RbcS) antibody

Catalog: PHY0067

Product Information

Description:	Rabbit polyclonal antibody
Background:	In photosynthetic organisms, D-ribulose-1,5-bisphosphate carboxylase/oxygenase (Rubisco) is the major enzyme assimilating atmospheric CO ₂ into the biosphere. This enzyme contains two subunits, each present in eight copies. In plants and green algae, 55-kD large subunit (RbcL) is coded by the chloroplast <i>rbcL</i> gene, and the 15-kD small subunit (RbcS) is coded by a family of nuclear <i>rbcS</i> genes (AT1G67090, AT5G38430, AT5G38420, AT5G38410).
Synonyms:	RbcS, SSU
Immunogen:	KLH-conjugated synthetic peptide (15 aa from central section) derived from <i>Arabidopsis thaliana</i> RbcS (AT1G67090).
Form:	Lyophilized
Quantity:	150 µg
Purification:	Protein A purified
Reconstitution:	Reconstitution with 150 µl 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 & Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 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

Recommended Dilution:	Western Blot (1:1000-1:5000) Note: Optimal dilutions/concentrations should be determined by the end user.
Expected / apparent MW:	20 / 15 kDa

Research Use Only

Confirmed Reactivity:

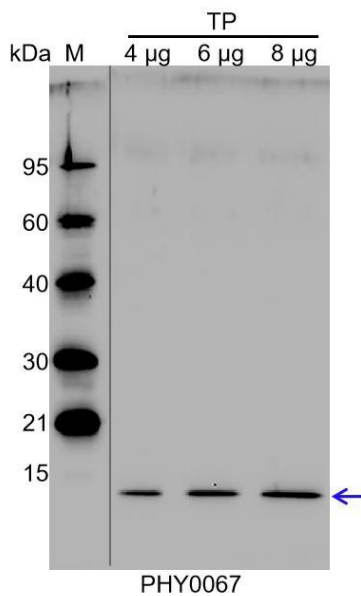
Arabidopsis thaliana

Predicted Reactivity:

Among species analyzed, the sequence of the synthetic peptide used for immunization is 80-99% homologues with the sequence in *Brassica napus*, *Brassica rapa*, *Populus trichocarpa*.

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

Application Example



TP: 4 µg, 6 µg and 8 µg total protein from *Arabidopsis thaliana*, respectively.

Electrophoresis: 15% SDS-Urea-PAGE

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

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

Primary antibody: 1:5000 dilution overnight at 4°C.

Secondary antibody: 1:20000 dilution using Goat Anti-Rabbit IgG H&L (HRP) (Cat# PHY6000).

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