

Anti-RuBisCO large subunit antibody

Catalog: PHY1927

Product Information

Description:	Mouse monoclonal antibody
Background:	Ribulose-1,5-bisphosphate carboxylase/oxygenase commonly known by the abbreviation RuBisCO, is an enzyme involved in the first major step of carbon fixation, a process by which atmospheric carbon dioxide is converted by plants to energy-rich molecules such as glucose. In chemical terms, it catalyzes the carboxylation of ribulose-1,5-bisphosphate (also known as RuBP). It is probably the most abundant enzyme on Earth. The enzyme usually consists of two types of protein subunit, called the large chain (RbcL) and the small chain (RbcS).
Synonyms:	RbcL, Ribulose-1,5-bisphosphate carboxylase, oxygenase
Immunogen:	Recombinant protein of RbcL derived from <i>Arabidopsis thaliana</i> ATCG00490.
Form:	Lyophilized
Quantity:	150 µg
Purification:	Protein A purified
Reconstitution:	Reconstitution with 150µl of 0.01M 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°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 (1:1000-1:4000) Note: Optimal dilutions/concentrations should be determined by the end user.
Expected/apparent MW:	53 kDa

Research Use Only

Confirmed Reactivity:

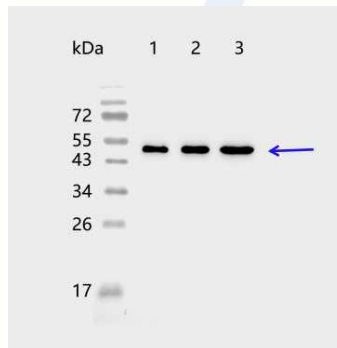
Arabidopsis thaliana, Oryza sativa, Zea mays

Predicted Reactivity:

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

Application Example

Example 1



PHY1927

Lane 1: 1.5 µg stromal protein from *Arabidopsis thaliana* leaf.

Lane 2: 3 µg stromal protein from *Arabidopsis thaliana* leaf.

Lane 3: 6 µg stromal protein from *Arabidopsis thaliana* leaf.

Electrophoresis: 15% SDS-Urea-PAGE

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

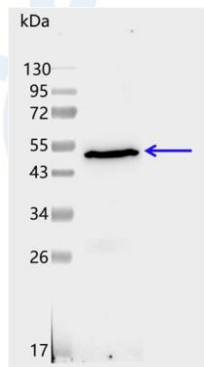
Blocking: 5% skim milk at RT or 4°C for 1 h.

Primary antibody: 1:4000 dilution overnight at 4°C.

Secondary antibody: 1:5000 dilution using Goat Anti-Mouse IgG H&L(HRP) (Cat# PHY6006)

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

Example 2



PHY1927

20 µg total protein from *Oryza sativa* leaf.

Electrophoresis: 15% SDS-PAGE

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

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

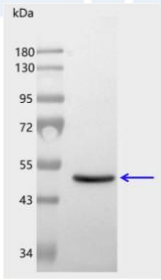
Primary antibody: 1:1000 dilution overnight at 4°C.

Secondary antibody: 1:5000 dilution using Goat Anti-Mouse IgG H&L(HRP)

(Cat# PHY6006).

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

Example 3



15 μ g total protein from *Zea mays* leaf.

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.

PHY1927 Secondary antibody: 1:5000 dilution using Goat Anti-Mouse IgG H&L(HRP) (Cat# PHY6006).

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