

Anti-RbcL subunit of RuBisCO antibody

Catalog: PHY0096A

Product Information

Description:	Rabbit polyclonal 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:	KLH-conjugated synthetic peptide of RbcL derived from <i>Arabidopsis thaliana</i> ATCG00490.
Form:	Lyophilized
Quantity:	150 µg
Purification:	Immunogen affinity 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 (1:4000-1:10000) Note: Optimal dilutions/concentrations should be determined by the end user.
Expected/apparent MW:	53 / 53-55 kDa

Research Use Only

Confirmed Reactivity:

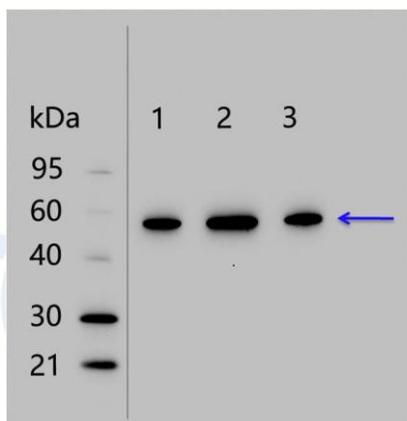
Arabidopsis thaliana, *Spinacia oleracea*

Predicted Reactivity:

Among 25 analyzed species, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in *Oryza sativa Japonica Group*, *Leymus chinensis*, *Zea mays*, *Cucumis sativus*, *Gossypium raimondii*, *Hordeum vulgare subsp. Vulgare*, *Medicago truncatula*, *Brassica napus*, *Solanum tuberosum*, *Solanum lycopersicum*, *Nicotiana tabacum*, *Triticum aestivum*, *Panicum virgatum*, *Vitis vinifera*, *Populus trichocarpa*, *Physcomitrella patens*, *Chlamydomonas reinhardtii*, *Glycine max*, *Setaria viridis*.

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

Application Example



Lane 1: 0.2 µg soluble protein from *Spinacia oleracea* leaf.

Lane 2: 0.4 µg soluble protein from *Spinacia oleracea* leaf.

Lane 3: 2 µg total 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: 1:10000 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.