

Anti-RbcL subunit of RuBisCO antibody

Catalog: PHY0096A

Product Information

Description:	Rabbit polyclonal antibody
Background:	<p>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.</p> <p>The enzyme usually consists of two types of protein subunit, called the large chain (RbcL) and the small chain (RbcS).</p>
Synonyms:	RbcL, Ribulose-1,5-bisphosphate carboxylase, oxygenase
Immunogen:	KLH-conjugated synthetic peptide (15 aa from Central section) derived from <i>Arabidopsis thaliana</i> RbcL (ATCG00490).
Form:	Lyophilized
Quantity:	150 µg
Purification:	Immunogen affinity purified
Reconstitution:	<p>Reconstitution with 150 µl of 0.01 M sterile PBS.</p> <p>"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".</p>
Stability & Storage:	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <p>12 months from date of receipt, -20 to -70°C as supplied.</p> <p>6 months, -20 to -70°C under sterile conditions after reconstitution.</p> <p>1 month, 2 to 8°C under sterile conditions after reconstitution.</p>
Shipping:	The product is shipped at 4°C. Upon receipt, store it immediately at the temperature recommended above.

Application Information

Recommended Dilution:	<p>Western Blot (1:1000-1:3000)</p> <p>Note: Optimal dilutions/concentrations should be determined by the end user.</p>
Expected / apparent MW:	53 kDa

Research Use Only

Confirmed Reactivity:

Arabidopsis thaliana, *Spinacia oleracea*

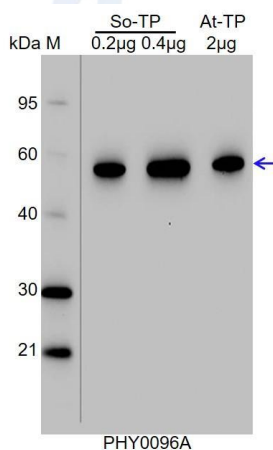
Predicted Reactivity:

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

The sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in AT2G07732.

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

Application Example



So-TP: 0.2 µg, 0.4 µg total protein from *Spinacia oleracea*.

TP: 2 µg total protein from *Arabidopsis thaliana*.

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: 1:3000 dilution overnight at 4°C.

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

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