

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 (15 aa from Central section) derived from

Arabidopsis thaliana RbcL (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 &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℃ 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 (1:1000-1:3000)

Note: Optimal dilutions/concentrations should be determined by the end

user.

Expected / apparent MW: 53 kDa



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, Chlamydomonas reinhardtii, Populus trichocarpa, Glycine max,

Physcomitrella patens, Vitis vinifera.

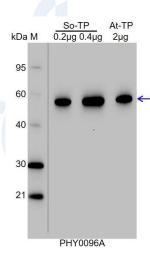
The sequence of the synthetic peptide used for immunization is 100%

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.