



# Anti-RbcL subunit of RuBisCO antibody

Catalog: RGR2030

## Product Information

<b>Description:</b>	Rabbit polyclonal antibody
<b>Background:</b>	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).
<b>Synonyms:</b>	RbcL, Ribulose-1,5-bisphosphate carboxylase, oxygenase
<b>Immunogen:</b>	KLH-conjugated synthetic peptide of RbcL derived from <i>Arabidopsis thaliana</i> ATCG00490.
<b>Form:</b>	Liquid, 20 $\mu$ l, 1mg/ml
<b>Purification:</b>	Immunogen affinity purified
<b>Stability &amp; Storage:</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 $^{\circ}$ C as supplied. 1 month, 2 to 8 $^{\circ}$ C under sterile conditions after reconstitution.
<b>Shipping:</b>	The product is shipped at 4 $^{\circ}$ C. Upon receipt, store it immediately at the temperature recommended above.

## Application Information

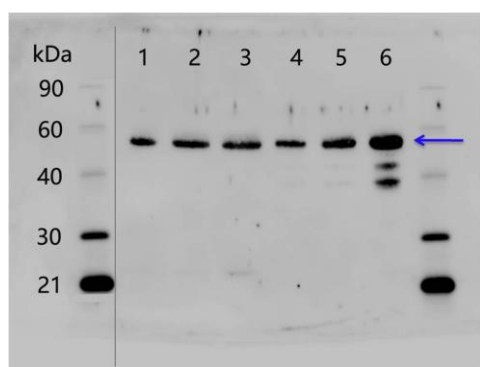
<b>Recommended Dilution:</b>	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
<b>Expected/apparent MW:</b>	53 / 53-55 kDa

**Confirmed Reactivity:** *Arabidopsis thaliana*

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

For more species homologues information, please contact [real-times@vip.163.com](mailto:real-times@vip.163.com)

## Application Example



Lane 1: 5  $\mu$ g soluble protein from *Arabidopsis thaliana* leaf.

Lane 2: 10  $\mu$ g soluble protein from *Arabidopsis thaliana* leaf.

Lane 3: 15  $\mu$ g soluble protein from *Arabidopsis thaliana* leaf.

Lane 4: 1.1  $\mu$ g stromal protein from *Arabidopsis thaliana* leaf.

Lane 5: 2.75  $\mu$ g stromal protein from *Arabidopsis thaliana* leaf.

Lane 6: 5.5  $\mu$ g 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:** 1:2000 dilution overnight at 4°C.

**Secondary antibody:** 1:20000 dilution using Goat Anti-Rabbit IgG H&L (HRP) (Cat# HGR1020)

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