

Anti-GmRbcS antibody

Catalog: PHY6632A

Product Information

Description:	Rabbit polyclonal antibody
Background:	GmRbcS is the small subunit of Rubisco in soybean (<i>Glycine max</i>). It is a core structural component of the Rubisco enzyme, which is essential for carbon fixation during photosynthesis. These proteins are located in the chloroplast and also play roles in plant stress responses.
Synonyms:	GmRbcS
Immunogen:	KLH-conjugated synthetic peptide (16 aa from central section) derived from <i>Glycine max</i> GmRbcS (Glyma.08G365300, Glyma.18G182200, Glyma.18G182300).
Form:	Lyophilized
Quantity:	150 µg
Purification:	Immunogen affinity purified
Reconstitution:	Reconstitution with 150 µl of sterile 1XPBS (PH=7.4) containing 30% glycerol. "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 (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
Expected / apparent MW:	10 kDa
Predicted Reactivity:	Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in <i>Medicago</i>

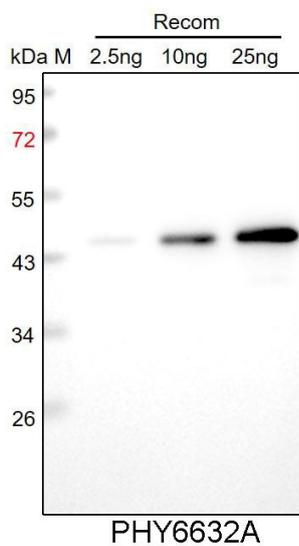
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truncatula, *Glycine max*, and 80-99% homologues with the sequence in *Spinacia oleracea*, *Sorghum bicolor*, *Hordeum vulgare*, *Oryza sativa*, *Setaria viridis*, *Triticum aestivum*, *Panicum virgatum*.

The sequence of the synthetic peptide used for immunization is 94% and 87% homologues with the sequence in Glyma.14G089500 and Glyma.13G097100, respectively.

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

Application Example



Recom: 2.5 ng, 10 ng and 25 ng recombinant protein containing the peptide for immunization and having a molecular mass of 46 kDa.

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.

Secondary antibody: 1:10000 dilution using Goat Anti-Rabbit IgG H&L (HRP) (Cat# PHY6000).

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