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## Product Datasheet

### Anti-RbcL | Rubisco large subunit, form I (chicken), Gallus, Polyclonal AGR-AS01-017

Article Name	Anti-RbcL   Rubisco large subunit, form I (chicken), Gallus, Polyclonal
Biozol Catalog Number	AGR-AS01-017
Supplier Catalog Number	AS01-017
Alternative Catalog Number	AGR-AS01-017
Manufacturer	Agrisera
Host	Gallus
Category	Antikörper
Application	IF, IL, WB
Species Reactivity	A. thaliana, Plant
Immunogen	KLH-conjugated synthetic peptide derived from all known plant, algal and cyanobacterial RbcL (Rubisco large subunit of Rubisco Form I) sequences, including <i>Arabidopsis thaliana</i> UniProt: O03042, TAIR: AtCg00490, <i>Synechococcus</i> sp. Q3ALL1
Product Description	Rubisco (Ribulose-1,5-bisphosphate carboxylase/oxygenase) catalyzes the rate-limiting step of CO <sub>2</sub> fixation in photosynthesis. It is one of the most abundant proteins on Earth and its homology has been demonstrated from purple bacteria to flowering pl...
Clonality	Polyclonal
Molecular Weight	52.7 kDa (Arabidopsis thaliana), 52.5 kDa (cyanobacteria), 52.3 kDa (Chlamydomonas reinhardtii)
NCBI	<a href="#">844754</a>

UniProt	<a href="#">O03042</a>
Purity	Purified, total IgY (chicken egg yolk immunoglobulin) in PBS pH 8. Contains 0.02 % sodium azide.
Form	Liquid
Antibody Type	Polyclonal Antibody
Application Dilute	(IL) tested on a grass species, formaldehyde-fixed and paraffin-embedded tissue following the protocol from Gonzalez et al, (1998) <i>Plant Physiol.</i> , V, 116, 1 : 10 000-1 : 20 000, 2 µg of total cellular protein, (WB)
Application Notes	This antibody detects RbcL protein from 102.6 fmoles and has been used as a control to ensure adequate permeabilization and fixation of toxic cyanobacterial cells in immunolabeling experiments (method based on: Orellana & Perry (1995) <i>J Phycol</i> 31: 785-794). Antibody has been used in immunolabelling of intact cyanobacterial cells fixed with ethanol using a secondary anti-IgY antibody conjugated with a fluorochrome. For Rubisco quantification using quantitative western blot technique, anti-RbcL antibody, (AS03 037) combined with Rubisco ready to use standard (AS01 017) is recommended.