

product **AS07 218**
Rubisco | 557 kDa hexadecamer

product information

background	Rubisco (Ribulose-1,5-bisphosphate carboxylase/oxygenase) catalyzes the rate-limiting step of CO ₂ fixation in photosynthetic organisms. It is demonstrably homologous from purple bacteria to flowering plants and consists of two protein subunits, each present in 8 copies. In plants and green algae, the large subunit (~55 kDa) is coded by the chloroplast <i>rbcl</i> gene, and the small subunit (15 kDa) is coded by a family of nuclear <i>rbcS</i> genes.
immunogen	purified 557 kDa hexadecamer Rubisco protein complex from <i>Spinacia oleracea</i> (SIGMA-ALDRICH R-8000)
antibody format	rabbit polyclonal serum lyophilized
quantity	200 µl for reconstitution add 200 µl of sterile water.
storage	store lyophilized/reconstituted at -20°C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tubes.
tested applications	western blot (WB)
additional information	to be added when available

application information

recommended dilution	1:10 000 - 1:20 000 on 0.5-10 µg total cellular protein/lane and standard ECL (WB)
expected apparent MW	53-55 53-55 kDa
confirmed reactivity	dicots including: <i>Arabidopsis thaliana</i> , <i>Glycine max</i> , <i>Manihot esculenta</i> Crantz <i>Pisum sativum</i> , <i>Solanum tuberosum</i> , <i>Spinacia oleracea</i> ; monocots including: <i>Zea mays</i> ; trees: <i>Populus</i> sp. moss: <i>Physcomitrella patens</i> , algae: <i>Chlamydomonas reinhardtii</i> , <i>Synechococcus</i> sp. PCC7942, <i>Synechocystis</i> sp. PCC 6803
predicted reactivity	dicots including: <i>Begonia</i> sp., <i>Daucus carota</i> and others
not reactive in	no confirmed exceptions from predicted reactivity known in the moment
additional information	RbcS subunit is not detected by this antibody
selected references	Kissen et al. (2012). Ecotype dependent expression and alternative splicing of epithiospecifier protein (ESP) in <i>Arabidopsis thaliana</i> . Plant Mol. Bio. - ahead of print.

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Antibodies for research

This product is **for research use only** (not for diagnostic or therapeutic use)

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Li et al. (2010). Proteome characterization of cassava (*Manihot esculenta* Crantz) somatic embryos, plantlets and tuberous roots. *Proteome Sci.* 2010 Feb 27;8:10.