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Agrisera AB | Box 57 | SE-91121 Vännäs | Sweden | +46 (0)935 33 000 | www.agrisera.com

Product no AS03 037-HRP

RbcL | Rubisco large subunit, form I, HRP-conjugated (40 µg)

Product information

Immunogen	KLH-conjugated synthetic peptide conserved across all known plant, algal and (cyano)bacterial RbcL protein sequences (form I L8S8 and form II L2), including *Arabidopsis thaliana* AtCg00490, *Hordeum vulgare* P05698, *Oryza sativa* P0C510, *Chlamydomonas reinhardtii* P00877, *Synechococcus* PCC 7920 A5CKC5
Host	Rabbit
Clonality	Polyclonal
Purity	Immunogen affinity purified serum in PBS pH 7.4, conjugated to HRP.
Format	Liquid
Quantity	40 µg
Storage	Store at 4°C for 12-18 months. A preservative may be added for long time storage up to 2 years.
Additional information	Anti-RbcL can be used as a cellular [compartment marker] of plastid stroma (cytoplasm in cyanobacteria) and detects RbcL protein from 31.25 fmoles. As both forms (I and II) are detected it is suitable for work with samples from Dinoflagellates, Haptophytes and Ochrophytes (diatoms, Raphidophytes, brown algae) as well as higher plants. This antibody together with Agrisera Rubisco protein standard is very suitable to quantify Rubisco in plant and algal samples.

Application information

Recommended dilution	1 : 5000 (ELISA), 1 : 10 000-25 000 (WB)
Expected | apparent MW	52.7 kDa (*Arabidopsis thaliana*), 52.5 kDa (cyanobacteria), 52.3 (*Chlamydomonas reinhardtii*)
Confirmed reactivity	*Agostis stolonifera cv. Penncross, Arabidopsis thaliana, Apium graveolens, Artemisia annua, Atrichum undulatum, Attheya longicornis, Baculogypsina sphaerulata (benthic foraminifer), Beta vulgaris, Begonia* sp., *Bienertia sinuspersici, Brassica napus, Kandelia candel, Cannabis sativa* L., *Chaetoceros furcellatus, Chlorococcum dorsiventrale, Colobanthus quitensis, Cicer arietinum, Chenopodium quinoa, Chlamydomonas raudensis, Chlamydomonas reinhardtii, Colobanthus quitensis* Kunt Bartl, *Chlorella sorokiniana, Chlorella vulgaris, Coscinodiscus concinnus, Cyanophora paradoxa, Cylindrospermopsis raciborskii* CS-505, *Cynara cardunculus, Emiliana huxleyi, Euglena gracilis, Ficus carica, Fortunella margarita* Swingle, *Fraxinus mandshurica, Fucus vesiculosus, Gladieria sulphuraria, Glycine max, Gonyaulax polyedra, Guzmania* hybrid, *Heterosigma akashiwo, Hevea, Hordeum vulgare, Hypnum cupressiforme, Jatropha curcas, Karenia brevis* (C.C.Davis) s) G.Hansen & Ø.Moestrup (Wilson isolate), *Kochia prostrata, Lathyrus sativus, Liquidambar formosana, Malus domestica, Medicago truncatula, Micromonas pusila, Nicotiana benthamiana, Nicotiana tabacum, Panicum virgatum, Petunia hybrida* cv. Mitchell, *Phaeodactylum tricornutum, Physcomitrium patens, Pisum sativum, olytrichum formosum, Porosira glacialis,, Porphyra sp., Ricinus communis, Robinia pseudoacacia, Rhytidiadelphus squarrosus, Saccharum* sp., *Schima superba, Skeletonema costatum* (diatom), *Skeletonema marinoi (diatom), Solanum lycopersicum*, *Spinacia oleracea*, lichens, *Stanleya pinnata, Symbiodinium sp., Synechococcus PCC 7942, Synechococcus elongatus* UTEX 2973, *Rhoeo discolor, Thalassiosira pseudonana, Thermosynechococcus elongatus, Triticum aestivum, Prochlorococcus sp.* (surface and deep water ecotype), *Triticum aestivum,* dinoflagellate endosymbionts (genus Symbiodinium), extreme acidophilic verrucomicrobial methanotroph *Methylacidiphilum fumariolicum* strain SolV, *Thalassiosira punctigera, Tisochrysis lutea, Verbascum lychnitis, Vitis vinifera, Quercus ilex*
Predicted reactivity	Alpha proteobacteria, Algae (brown and red) including *Galdieria sulphuraria*, Dicots, *Benincasa hispida*, *Kalanchoe fedtschenkoi*; Beta-proteobacteria, Conifers, Cryptomonads, Cyanobacteria (prochlorophytes), Gamma-proeobacteria, Liverworts, *Manihot esculenta*, Marchantia polymorpha, Monocots, Mosses, *Suaeda glauca, Welwitschia; Nannochloropsis* sp., *Picochlorum sp., Porphyridium purpureum, Zea mays, Zosteria marina* For detection in Rhodospirillaceae use product AS15 2955 Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known