AtpC | Gamma subunit of ATP synthase (chloroplastic)

CD BioSciences
Plant Protein

Cat *PA00598*

Size *100 µl*

Host
Rabbit

Clonality
Polyclonal

Confirmed reactivity
Arabidopsis thaliana, Chlamydomonas reinhardtii, Chlorella sorokiniana, Chlorella vulgaris, Echinochloa crus-galli, Phycomitrella patens, Pisum sativum, Zea mays

Immunogen
KLH-conjugated peptide, derived from C-terminal part of Chlamydomonas reinhardtii protein sequence A8HXL8

Host
Rabbit

Clonality
Polyclonal

Purity
Serum

Format
Lyophilized

Reconstitution
For reconstitution add 100 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 the tubes briefly prior to opening them to avoid any losses that might occur from material adhering to the cap or sides of the tube.

Application
Western blot (WB)

Recommended dilution
1: 1000 (ELISA), 1: 10 000 (WB)

Expected | apparent MW
35.3 | 42 (Chlamydomonas reinhardtii) 35.6 | 38 (Spinacia oleracea)

Confirmed reactivity
Arabidopsis thaliana, Chlamydomonas reinhardtii, Chlorella sorokiniana, Chlorella vulgaris, Echinochloa crus-galli, Phycomitrella patens, Pisum sativum, Zea mays

Predicted reactivity
Arachis hypogaea, Auxenochlorella protothecoides, Bathycoccus prasinos, Cephalotus follicularis, Cicer arietinum, Coccomyxa subellipsoidea (strain C-169), Cucumis melo, Cyanobacteria, Cynara cardunculus var. scolymus, Daucus carota subsp. sativus, Dendrobium catenatum,Fagus sylvaticaGenlisea aurea, Glycine max, Gossypium hirsutum, Jatropha curcas, Juglans regia, Klebsormidium flaccidum, Helianthus annuus, Lactuca

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sativa, Lens culinaris, Lupinus angustifolius, Manichot esculenta, Marchantia polymorpha subsp. ruderalis, Medicago truncatula, Micromonas pusilla (strain CCMP1545), Monoraphidium neglectum, Morus notabilis, Nelumbo nucifera, Nicotiana sylvestris, Nicotiana tabacum, Ostreococcus tauri, Punica granatum , Phaseolus vulgaris, Pisum sativum, Populus jackii, Populus trichocarpa, Prunus persica, Ricinus communis, Rosa chinensis, Selaginella moellendorffii, Spinacia oleracea,Solanum lycopersicum, Solanum tuberosum, Terma orientalis, Tetraselmis sp. GSL018, Theobroma cacao, Trifolium pratense, Zostera marina, Vigna unguiculata, Vitis vinifera, Volvox carteri f. nagariensis, Quercus suber

Not reactive in

Phaeodactylum tricornutum

Additional information

This product can be sold containing ProClin if requested,Apparent molecular weight of subunit gamma (and as general rule most of ATP synthase subunits) is quite different between Chlamydomonas (42 kDa) and higher plants (38 kDa in spinach), see figure in Lemaire et al. (1989).

Description

ATP synthase produces ATP from ADP in the presence of a proton gradient across the membrane. F-type ATPase has two components, CF(1) - the catalytic core - and CF(0) - the membrane proton channel. CF(1) has five subunits :(3), (3), (1), (1). CF(0) has three main subunits :a, b, and c. Gamma chains are thought to be important in regulating ATPase activity and proton flow through the CF(0) complex. Another name for the gamma subunit is F-ATPase gamma subunit.

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