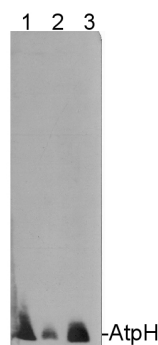


Product no **AS09 591****AtpH | ATP synthase subunit c (chloroplastic)****Product information**

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|-------------------------------|---|
| Immunogen | KLH-conjugated peptides derived from AtpH subunit c of <i>Arabidopsis thaliana</i> UniProt: P56760 , TAIR: AtCg00140 and <i>Chlamydomonas reinhardtii</i> UniProt: Q37304 |
| Host | Rabbit |
| Clonality | Polyclonal |
| Purity | Serum |
| Format | Lyophilized |
| Quantity | 100 µl |
| 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. |
| Additional information | This product can be sold containing ProClin if requested |

Application information

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|-------------------------------|--|
| Recommended dilution | 1 : 10 000 (WB) |
| Expected apparent MW | 8 kDa (for <i>Arabidopsis thaliana</i>) |
| Confirmed reactivity | <i>Arabidopsis thaliana</i> , <i>Chlamydomonas reinhardtii</i> |
| Predicted reactivity | Algae, <i>Cannabis sativa</i> , <i>Glycine max</i> , <i>Hordeum vulgare</i> , <i>Oryza sativa</i> , <i>Ostreococcus tauri</i> , <i>Physcomitrium patens</i> , <i>Pinus thunbergii</i> , <i>Pisum sativum</i> , <i>Populus alba</i> , <i>Zea mays</i> , <i>Vitis vinifera</i> |
| | Species of your interest not listed? Contact us |
| Not reactive in | No confirmed exceptions from predicted reactivity are currently known |
| Additional information | Please note that increased incubation at 95°C (20-30 min) prior to loading is recommended to break the multimeric c-mer structure, detection of partial ring structures (e.g, 5 or 6 subunits) may occur |
| Selected references | Schulz et al. (2017) . Molecular architecture of the N-type ATPase rotor ring from Burkholderia pseudomallei. EMBO Rep. 2017 Apr;18(4):526-535. doi: 10.15252/embr.201643374. |

Application example

10 µg of chlorophyll/well of *Chlamydomonas reinhardtii* total cell extract (1), *Chlamydomonas reinhardtii* subunit gamma deletion mutant thylakoid membrane fraction (2), *Arabidopsis thaliana* thylakoid membrane fraction (3), *Chlamydomonas reinhardtii* thylakoid membrane preparation (4) were separated on 12-18% acrylamide-8M urea gel and blotted to nitrocellulose membrane. Filters were blocked 1 h with 5% dry milk in 1 x PBS and probed with anti-ATP synthase subunit c antibody (AS09 591, 1: 10 000, 1h) and secondary HRP-conjugated anti-rabbit antibody (1: 10 000, 1 h) in 1 x PBS containing 5% dry milk. All steps were performed at RT with agitation. Signal was detected with chemiluminescent detection, exposure time 30".

Arabidopsis membrane preparation has been done according to [Lezhneva et al. \(2008\)](#) A novel pathway of cytochrome c biogenesis is involved in the assembly of the cytochrome b6f complex in arabidopsis chloroplasts. J Biol. Chem., 283:24608-24616 and *Chlamydomonas* membranes were prepared according to [Chua & Bennoun \(1975\)](#) Thylakoid membrane polypeptides of *Chlamydomonas reinhardtii*: wild-type and mutant strains deficient in photosystem II reaction center. PNAS 72:2175-2179

Courtesy Dr. Yves Choquet, CNRS, France