

Product no **AS09 457****AtpG | ATPsynthase subunit II b' (chloroplastic)****Product information**

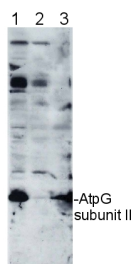
Immunogen	KLH-conjugated mix of synthetic peptide derived from <i>Arabidopsis thaliana</i> AtpG Q0WMW8 , At4g32260 and <i>Chlamydomonas reinhardtii</i> ATP synthase subunit b' A8J785
Host	Rabbit
Clonality	Polyclonal
Purity	Serum
Format	Lyophilized
Quantity	100 µl
Reconstitution	For reconstitution add 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

Recommended dilution	1 : 10 000 (WB)
Expected apparent MW	22.4 kDa (<i>Chlamydomonas reinhardtii</i>) 15.9 kDa (<i>Arabidopsis thaliana</i>)
Confirmed reactivity	<i>Arabidopsis thaliana</i> , <i>Chlamydomonas reinhardtii</i>
Predicted reactivity	Algae, <i>Oryza sativa</i> , <i>Sorghum bicolor</i> , <i>Zea mays</i> , <i>Volvox carteri</i>
	Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known

Additional information | Antibody reactivity for *Arabidopsis thaliana* has been confirmed on membrane fraction.

Application example

10 µg of chlorophyll/well of *Chlamydomonas reinhardtii* total cell extract (1), *Chlamydomonas reinhardtii* subunit II deletion mutant thylakoid membrane fraction (2), *Arabidopsis thaliana* thylakoid membrane fraction (3), 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 gamma antibody (AS09 457, 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 reagent, exposure time was 1 min.

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