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This product is **for research use only** (not for diagnostic or therapeutic use) **contact: support@agrisera.com**

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Product no AS10 1604

AtpF | CF0I subunit of ATP synthase

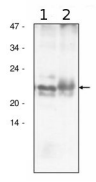
Product information

Immunogen	Isolated CF_0I subunit of the chloroplast ATP synthase complex of *Arabidopsis thaliana*, UniProt UniProt::P56759, TAIR: ATCG00130
Host	Rabbit
Clonality	Polyclonal
Purity	Serum
Format	Liquid
Quantity	100 µl
Storage	Store at short-term 4°C, Long-term -20°. Repeated freezing and thawing is not recommended. It ontains 0,01% sodium azide.
Additional information	This product can be sold containing proClin if requested

Application information

Recommended dilution	1 : 5000 (BN-PAGE), (WB)
Expected | apparent MW	21 kDa
Confirmed reactivity	*Arabidopsis thaliana, Chlamydomonas reinhardtii, Spinacia oleracea, Ulva prolifera*
Predicted reactivity	*Cannabis sativa*, Higher plants, *Phaseolus vulgaris, Pisum sativum* Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Selected references	Galvis et al. (2020). H+ transport by K+ EXCHANGE ANTIPORTER3 promotes photosynthesis and growth in chloroplast ATP synthase mutants. Plant Physiol. pp.01561.2019. doi: 10.1104/pp.19.01561. Koochak et al. (2019). The structural and functional domains of plant thylakoid membranes. Plant J. 2019 Feb;97(3):412-429. doi: 10.1111/tpj.14127. Lv et al. (2019). Uncoupled Expression of Nuclear and Plastid Photosynthesis-Associated Genes Contributes to Cell Death in a Lesion Mimic Mutant. Plant Cell. 2019 Jan;31(1):210-230. doi: 10.1105/tpc.18.00813. Gao et al. (2018). A supercomplex, approximately 720 kDa and composed of both photosystem reaction centers, dissipates excess energy by PSI in green macroalgae under salt stress. Plant Cell Physiol. 2018 Oct 8. doi: 10.1093/pcp/pcy201. Koochak et al. (2018). The structural and functional domains of plant thylakoid membranes. Plant J. 2018 Oct 12. doi: 10.1111/tpj.14127. (BN-PAGE) Rantala and Tikkanen et al. (2018). Phosphorylation induced lateral rearrangements of thylakoid protein complexes upon light acclimation. Plant Direct Vol. 2, Issue 2. Fristedt et al. (2015). The thylakoid membrane protein CGL160 supports CF1CF0 ATP synthase accumulation in Arabidopsis thaliana. PLoS One. 2015 Apr 2;10(4):e0121658. doi: 10.1371/journal.pone.0121658. Grieco et al. (2015). Light-harvesting II antenna trimers connect energetically the entire photosynthetic machinery - including both photosystems II and I. Biochim Biophys Acta. 2015 Jun-Jul;1847(6-7):607-19. doi: 10.1016/j.bbabio.2015.03.004. Epub 2015 Apr 3. Yap at al. (2015). AEF1/MPR25 is implicated in RNA editing of plastid atpF and mitochondrial nad5 and also promotes atpF splicing in Arabidopsis and rice. Plant J. 2015 Jan 13. doi: 10.1111/tpj.12756.

Application example



20 µg of chloroplast fraction from *Arabidopsis thaliana* **(1)** and *Spinacia oleracea* **(2)** were separated on 12 % SDS-PAGE and blotted 1h to PVDF. Blots were blocked with 2 % non-fat milk powder in 1xTBS-T for 1h at room temperature (RT) with agitation. Blot was incubated in the primary antibody at a dilution of 1: 5 000 for 1h at RT with agitation. The antibody solution was decanted and the blot was rinsed briefly twice, then washed once for 15 min and 3 times for 5 min in TBS-T at RT with agitation. Blot was incubated in secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated) diluted to 1:10 000 in for 1h at RT with agitation. The blot was washed as above and developed for 5 min with ECL

according to the manufacturer's instructions.