Product no: **AS10 1604**

**AtpF | CF0I subunit of ATP synthase**

**Product information**

**Background**

The chloroplast ATP synthase belongs to the family of F1-type ATPases, which are also present in bacteria and mitochondria. ATP synthase generates ATP from ADP and inorganic phosphate using energy derived from a trans-thylakoidal electrochemical proton gradient.

**Immunogen**

Isolated CF\(_{0}\)I subunit of the chloroplast ATP synthase complex of *Arabidopsis thaliana*, UniProt: [P56759](https://www.uniprot.org/uniprot/P56759), TAIR: [ATCG00130](https://www.arabidopsis.org/index.jsp).

**Host**

Rabbit

**Clonality**

Polyclonal

**Purity**

Serum

**Format**

Liquid

**Quantity**

100 µl

**Storage**

Store at short-term 4°C. Long-term -20°C. Repeated freezing and thawing is not recommended. Solution contains 0.01% sodium azide as preservative.

**Tested applications**

Blue Native PAGE (BN-PAGE), Western blot (WB)

**Related products**

- AS08 304 | Anti-AtpA | alpha subunit of ATP synthase, rabbit antibodies
- AS03 030 | Anti-ATP synthase subunit beta, chicken antibodies
- AS05 085 | Anti-ATP synthase subunit beta, rabbit antibodies
- AS10 1590 | Anti-AtpD | CF1 delta subunit of ATP synthase (algae), rabbit antibodies
- AS10 1591 | Anti-AtpD | CF1 delta subunit of ATP synthase (higher plants), rabbit antibodies
- AS10 1583 | Anti-AtpI | CFoIV subunit of ATP synthase antibody, rabbit antibodies
- AS08 312 | Anti-ATP synthase subunit gamma, rabbit antibodies
- AS09 591 | Anti-AtpH | ATP synthase subunit c, rabbit antibodies
- AS05 071 | Anti-AtpH | ATP synthase subunit c, rabbit antibodies
- AS08 370 | Anti-ATP synthase whole enzyme, rabbit antibodies

**Secondary antibodies**

**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

**Confined reactivity**

*Arabidopsis thaliana, Chlamydomonas reinhardtii, Spinacia oleracea, Ulva prolifera*

**Predicted reactivity**

*Cannabis sativa, Higher plants*

**Not reactive in**

No confirmed exceptions from predicted reactivity are currently known.

**Selected references**


**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.