

## Product information

**Antibody name:** anti- $CF_1\gamma$  (AtpC) subunit of ATP synthase

**Product number:** A12A-1

**Product description:** polyclonal antibody; contains 0.01%  $NaN_3$

**Origin:** rabbit

**Immunogen:** synthetic peptide (a. a. 54 - 68) for *Arabidopsis* AtpC1 protein

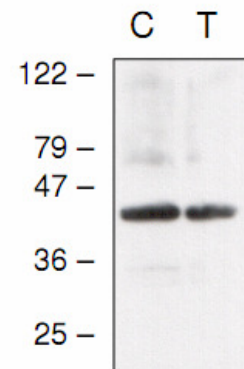
**Applications:** Western blot (1 : 1.000)

**Immunocrossreaction:** *Arabidopsis*; other higher plants were not analysed. In *Arabidopsis thaliana* antibody reacts with AtpC1/C2. The synthetic peptide used for antibody production is conservative in most higher plant species and highly homologous to cyanobacterial AtpC.

**Storage:** short term +4°C; long term -20°. Repeated freezing and thawing is not recommended.

**Quantity:** 100  $\mu$ l

**Protein description:** 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.  $ATP\gamma$  subunit is the energy transducing subunit of rotor part of ATP synthase and responsible for redox modulations due to two cysteine residues. The *Arabidopsis* genome encodes two  $ATP\gamma$  (Atp C1/C2) subunits which may be involved in different functions.



Western blot analysis of *Arabidopsis* chloroplast (C) and thylakoid (T) proteins with anti- $CF_1\gamma$  (AtpC).