

Product information

Antibody name: anti-cyclophilin AtCYP38

Product number: I01A-2

Product description: polyclonal antibody;
contains 0.01% NaN₃

Origin: rabbit

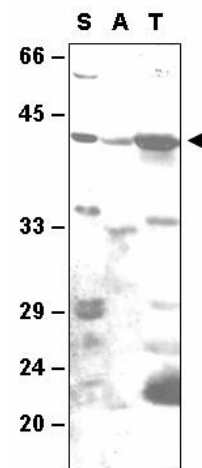
Immunogen: recombinant full-length immunophilin
(At3g01480; MIPS) from *Arabidopsis*

Immunodetection: Western blot (1: 1.000 for ECL)

Immunocrossreaction: *Arabidopsis*, tobacco, spinach;
other higher plant species were not tested

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

Quantity: 300 µl



Immunoblot analysis of
chloroplast proteins
extracted from spinach (S),
Arabidopsis (A) and
tobacco (T) with anti-
cyclophilin AtCYP38

Protein description: Cyclophilin AtCYP38 represents the first complex immunophilin protein identified from higher plants. The protein was initially designated as TLP40 (thylakoid lumen protein). It was suggested that AtCYP38 may be involved in the inhibition of the protein phosphatase that dephosphorylates the subunits of photosystem II. It was shown *in vitro* that the activation of the phosphatase coincides with the release of TLP40 into the thylakoid lumen (Fulgosi et al., EMBO J, 17, 1577 – 1587; Rokka et al., 2000, Plant Phys., 123, 1525 – 1535). The *Arabidopsis* genome encodes two homologous complex immunophilins, AtCYP38 and AtCYP37 (antibody products No.: I02A-1/2). The functions of these two immunophilins and the functional relationship of AtCYP38 and AtCYP37 are not studied yet.

For research purposes only