

## Product Information

<b>antibody clonality</b>	polyclonal
<b>raised in</b>	rabbit
<b>purity</b>	serum
<b>quantity</b>	200 µl
<b>antibody form</b>	lyophilized

Add 200 µl of sterile water for reconstitution. Spin tubes briefly prior to opening to avoid any losses that might occur from liquid or lyophilized material adhering to the cap or sides of the tubes.

### storage instructions

Store lyophilized/reconstituted at -20°C (6 months) or -80°C (long term storage/years). Please, avoid freezing and thawing of reconstituted antibodies. Make aliquots instead.

**background** | Cytochrome c is located in inner mitochondrial membrane. It is a small heme protein which unlike other cytochromes is highly soluble. This protein is an essential component of the electron transport chain, where it undergoes oxidation and reduction without binding oxygen.

**immunogen** | synthetic peptide (derived from (*A.thaliana* cytochrome c protein sequence, accession AT1G228401 (cytc1) and AT4G100401 (cyt2)) coupled to KLH

**reference** | n.a.

### related products

AS04 053A COXII | cytochrome oxidase subunit II

## Application Information

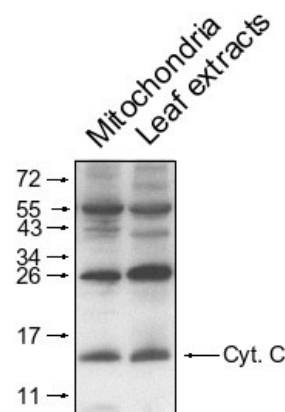
**western blot** | 1:1000 on 20-30 µg protein/lane with secondary antibody 1:10000 and ECL standard detection

**expected / apparent MW [kDa]** | 12,5 / 14 kDa for *A.thaliana*

**confirmed reactivity** | *A.thaliana*

**predicted reactivity** | cytc1 and cytc2 from following species: *A.theoprasi*, *B.napus*, *B.oleracea*, *C.maxima*, *Ch.reinhardtii* (peptide target partially conserved), *L.esculentum*, *M.truncatula*, *O.sativa*, *Ostreococcus* (peptide target partially conserved) *P.aurea*, *Physcomitrella patens*, *R.comunis*, *S.nigra*, *V.vinifera*

**not reactive in** | *A.thaliana* CytC6,



**figure** | Total proteins from *Arabidopsis thaliana* mitochondria (20 µg) and leaves (30 µg) and was separated on 10% gel and blotted on nitrocellulose using wet transfer (0.22% CAPS, pH 11). Filters were blocked (1.5h in 5% milk in TBST (1X TBS, 0.1% Tween 20), incubated with 1:1000 anti-cytc antibodies (2h in TBST) followed by incubation with 1:10000 secondary anti-rabbit (1h) coupled to HRP and visualization with standard ECL on Kodak autoradiography film for 15-60 s.

Mitochondria were isolated as described by Urantowka et al. (Plant Mol Biol, 2005, 59:239-52). Mitochondrial pellets were suspended in 1X Laemmli buffer (5% beta-mercaptoethanol, 3.7% glycerol, 1.1% SDS, 23 mM Tris-HCl pH 6.8, 0.01% bromophenol blue), heated (95 °C, 5 min.) and centrifuged (13000rpm, 1 min.). Leaf extracts were prepared as described by Martinez-Garcia et al. (Plant J., 1999, 20:251-7).

Antibodies are intended for research use only and not for diagnostic or therapeutic use. For applications or usage on species others than stated above, please contact [support@agrisera.com](mailto:support@agrisera.com)