product AS08 343A
Cyt c | Cytochrome c

product information

**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**
KLH-conjugated synthetic peptide derived from *Arabidopsis thaliana* cytochrome c protein sequence, UniProt:D7KMK0 (C-1) D7LY03 (C-2), TAIR: At1g22840 (Cytc1) and At4g10040 (Cytc2)

**Host**
Rabbit

**Clonality**
Polyclonal

**Purity**
Affinity purified serum in PBS, pH 7.4

**Format**
Lyophilized

**Quantity**
50 µg

**Reconstitution**
For reconstitution add 50 µl of sterile water.

**Storage**
Store lyophilized at -20°C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles and Store at -80°C. Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tubes.

**Tested applications**
Western blot (WB)

**Related products**
AS04 052 | anti-COXII hen antibody
AS04 053A | anti-COXII rabbit antibody
AS06 151 | anti-COXIIb antibody

**Secondary antibodies**

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**Application information**

**Recommended dilution**
1 : 5000 (WB)

**Expected | apparent MW**
12.5 | 14 kDa for *A. thaliana*

**Confined reactivity**
*Arabidopsis thaliana*, *Brassica oleracea*, *Glycine max*, *Pisum sativum*, *Zea mays*

**Predicted reactivity**

**Not reactive in**
*Arabidopsis thaliana* CytC6

**Additional information**
The presence of cytochrome c in the cytosol is a marker of PCD (programmed cell death).

**Selected references**


Schimmeyer et al. (2016). L-Galactono-1,4-lactone dehydrogenase is an assembly factor of the membrane arm of


Application example

Mitochondrial proteins (15 ug) from Arabidopsis thaliana mitochondria was separated on 16% acrilamide gel and electrophoresis prepared according to Schägger and von Jagow (Anl. Biochem., 1987, 166:368-379). After running the gel, proteins were transferred to PVDF membrane using wet transfer (Roti®-Blot 2, Roth). Transfer was checked by Ponceau S staining. Blot was destained by several quick washings in distilled water and 1 washing in 1X TBS (10 mM Tris pH 7.5, 150 mM NaCl) (10-15 min.). Blot was blocked by 1.5 hour in 5% milk in TBST (1X TBS, 0.1% Tween 20) After blocking blot was washed quickly twice in TBST and incubated 2 hours with primary antibody (dilution 1:1000) in TBST. Washing: two quick washings in TBST and 3 x 10 min. washings in TBST. Then blot was incubated 45-60 min. with a secondary anti-rabbit antibodies conjugated to peroxidase (Agrisera AB, dilution 1:10 000, AS09 602) in TBST. Washing: as above. After washing blot was incubated 1-2 min. in ECL solution (NOWA Kit, Thermo Scientific). Chemiluminescence was detected by BioSpectrum® Imaging System (UVP). Exposure time was 5 seconds.

Courtesy Dr. Janusz Piechota, Wroclaw University, Poland