

Product no **AS08 343A**  
**Cyt c | Cytochrome c**

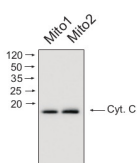
## Product information

<b>Immunogen</b>	KLH-conjugated synthetic peptide derived from <i>Arabidopsis thaliana</i> cytochrome c protein sequence, UniProt: <a href="#">D7KMK0</a> (C-1) <a href="#">D7LY03</a> (C-2), TAIR: <a href="#">At1g22840</a> (Cytc1) and <a href="#">At4g10040</a> (Cytc2)
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Purity</b>	Affinity purified serum in PBS, pH 7.4
<b>Format</b>	Lyophilized
<b>Quantity</b>	50 µg
<b>Reconstitution</b>	For reconstitution add 50 µl of sterile water.
<b>Storage</b>	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.

## Application information

<b>Recommended dilution</b>	1: 100 (IL), 1 : 5000 (WB)
<b>Expected   apparent MW</b>	12.5   14 kDa (for <i>Arabidopsis thaliana</i> )
<b>Confirmed reactivity</b>	<i>Arabidopsis thaliana</i> , <i>Brassica oleracea</i> , <i>Glycine max</i> , <i>Pisum sativum</i> , <i>Zea mays</i>
<b>Predicted reactivity</b>	cytc1 and cytc2 from following species: <i>A. theoprasii</i> , <i>Brassica napus</i> , <i>Brassica oleracea</i> , <i>Cannabis sativa</i> , <i>C. maxima</i> , <i>Chlamydomonas reinhardtii</i> (peptide target partially conserved), <i>Lupinus luteus</i> , <i>Medicago truncatula</i> , <i>Nicotiana tabacum</i> , <i>Oryza sativa</i> , <i>Ostreococcus</i> (peptide target partially conserved), <i>P. aurea</i> , <i>Physcomitrella patens</i> , <i>Ricinus communis</i> , <i>S. nigra</i> , <i>Solanum lycopersivum</i> , <i>Vitis vinifera</i> .  Species of your interest not listed? <a href="#">Contact us</a>
<b>Not reactive in</b>	<i>Arabidopsis thaliana</i> CytC6
<b>Additional information</b>	The presence of cytochrome c in the cytosol is a marker of PCD (programmed cell death).  For high resolution images, please visit the specific product page at <a href="http://www.agrisera.com">www.agrisera.com</a>
<b>Selected references</b>	<a href="#">Dai et al. (2020)</a> . Pentatricopeptide repeat protein DEK46 is required for multi-sites mitochondrial RNA editing and maize seed development. J Exp Bot. 2020 Jul 25;eraa348.doi: 10.1093/jxb/eraa348. <a href="#">Wang et al. (2020)</a> Rerouting of ribosomal proteins into splicing in plant organelles. BioRxiv, DOI: 10.1101/2020.03.03.974766 . <a href="#">Doronina et al. (2019)</a> . Structural and Functional Features of the Wheat Embryo Sac's Antipodal Cells during Differentiation. Russ J Dev Biol 50, 194?208. (immunolocalization) <a href="#">Waltz et al. (2019)</a> . Small is big in Arabidopsis mitochondrial ribosome. Nat Plants. 2019 Jan;5(1):106-117. doi: 10.1038/s41477-018-0339-y. <a href="#">Rurek et al. (2018)</a> . Mitochondrial Biogenesis in Diverse Cauliflower Cultivars under Mild and Severe Drought Involves Impaired Coordination of Transcriptomic and Proteomic Response and Regulation of Various Multifunctional Proteins. Preprints 2018, 2018010276 (doi: 10.20944/preprints201801.0276.v1).

## Application example



Mitochondrial proteins (15 µg) from *Arabidopsis thaliana* mitochondria was separated on 16% acrilamide gel and electrophoresis prepared according to Schägger and von Jagov (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 T 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 chemiluminescent detection reagent. Chemiluminescence was detected by BioSpectrum® Imaging System (UVP). Exposure time was 5 seconds.

Courtesy Dr. Janusz Piechota, Wrocław University, Poland