

Agrisera

This product is for research use only (not for diagnostic or therapeutic use)

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

Product information

Immunogen	KLH-conjugated synthetic peptide derived from <i>Arabidopsis thaliana</i> 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.

Application information

Recommended dilution	1 : 100 (IL), 1 : 5000 (WB)
Expected apparent MW	12.5 14 kDa (for <i>Arabidopsis thaliana</i>)
Confirmed reactivity	<i>Arabidopsis thaliana</i> , <i>Brassica oleracea</i> , <i>Glycine max</i> , <i>Pisum sativum</i> , <i>Zea mays</i>
Predicted reactivity	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? Contact us
Not reactive in	<i>Arabidopsis thaliana</i> CytC6
Additional information	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 www.agrisera.com
Selected references	Dai et al. (2020) . 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. Wang et al. (2020) Rerouting of ribosomal proteins into splicing in plant organelles. BioRxiv, DOI: 10.1101/2020.03.03.974766 . Doronina et al. (2019) . Structural and Functional Features of the Wheat Embryo Sac's Antipodal Cells during Differentiation. Russ J Dev Biol 50, 194?208. (immunolocalization) Waltz et al. (2019) . Small is big in Arabidopsis mitochondrial ribosome. Nat Plants. 2019 Jan;5(1):106-117. doi: 10.1038/s41477-018-0339-y. Rurek et al. (2018) . 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).

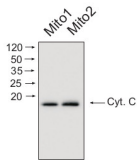
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Application example



Mitochondrial proteins (15 ug) 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