

Product no **AS04 053A**

COXII | Plant Cytochrome oxidase subunit II (affinity purified)

Product information

Background	Cytochrome c oxidase (COX) catalyzes the reduction of oxygen to water in the respiratory chain in the inner mitochondrial membrane. Subunits 1-3 form the functional core of the enzyme complex. Subunit 2 (COXII) transfers the electrons from cytochrome c via its binuclear copper A center to the bimetallic center of the catalytic subunit 1. Alternative name: cytochrome c oxidase subunit 2
Immunogen	<u>KLH</u> -conjugated synthetic peptide fully conserved in all available protein sequences from eudicots including <i>Arabidopsis thaliana</i> <u>AtmG00160</u> , monocots including <i>Oryza sativa</i> <u>P04373</u> and <i>Physcomitrella patens</i> <u>Q1XGA9</u>
Host	Rabbit
Clonality	Polyclonal
Purity	Affinity purified serum
Format	Lyophilized in PBS pH 7.4
Quantity	50 µg
Reconstitution	For reconstitution add 50 µl of sterile water.
Storage	Store lyophilized/reconstituted at -20 °C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. 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	Blue Native-PAGE (BN-PAGE), Western blot (WB)
Related products	<u>AS04 052</u> Anti-COXII (plant), chicken antibodies <u>AS04 053A-200</u> Anti-COXII cytochrome oxidase subunit II (plant), rabbit antibodies <u>AS04 053PRE</u> COXII cytochrome oxidase subunit II, pre-immune serum <u>AS04 053P</u> COXII cytochrome oxidase subunit II Blocking peptide <u>Antibodies to other mitochondrial proteins</u> <u>Plant protein extraction buffer</u>
Additional information	Cellular [compartment marker] of mitochondrial inner membrane

Application information

Recommended dilution	1 : 1000 (BN-PAGE), 1 : 1000 (WB)
Expected apparent MW	29.4 30 kDa (for <i>Arabidopsis thaliana</i>)
Confirmed reactivity	<i>Arabidopsis thaliana</i> (leaf extract and isolated mitochondria), <i>Betula nana</i> , <i>Brassica napus</i> , <i>Brassica oleracea</i> , <i>Cicer arietinum</i> , <i>Cucumis melo</i> , <i>Cucumis sativus</i> , <i>Erophorum vaginatum</i> , <i>Hordeum vulgare</i> , <i>Lilium longiflorum</i> , <i>Nicotiana tabacum</i> , <i>Picea abies</i> , <i>Plantago major</i> , <i>Plantago euryphylla</i> , <i>Silene uniflora</i> , <i>Silene dioica</i> , <i>Physcomitrella patens</i> , <i>Triticum aestivum</i> , <i>Triticum durum</i> Desf. , <i>Zea mays</i> , <i>Vicia faba</i> , <i>Quercus rubra</i>
Predicted reactivity	<i>Cucumis melo</i> , <i>Glycine max</i> , <i>Oryza sativa</i> , <i>Physcomitrella patens</i> , <i>Pisum sativum</i> , <i>Triticum aestivum</i> , <i>Vigna radiata</i> Species of your interest not listed? Contact us
Not reactive in	<i>Saccharina japonica</i>
Additional information	Antibody detects COXII protein most optimally in membrane fractions. The signal is weak in a in total protein extract. Blue Native gel electrophoresis (BN-PAGE) has been performed on samples solubilized with digitonin (4:1) and loaded at 100 µg/well. Gel thickness was 2 mm with 4.5-16 % gradient. For high resolution images, please visit the specific product page at www.agrisera.com

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