



Datasheet for ABIN334535

anti-COXII antibody



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Overview

Quantity:	50 µg
Target:	COXII
Reactivity:	Arabidopsis thaliana, Moss, Plantago euryphylla, Plantago major, Silene dioica, Silene uniflora, Wild Cabbage, Chickpea, Nicotiana tabacum, Zea mays
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Blue-native PAGE (BN PAGE)

Product Details

Immunogen:	KLH-conjugated synthetic peptide fully conserved in all available protein sequences from eudicots including Arabidopsis thaliana AtmG00160, monocots including Oryza sativa P04373 and Physcomitrella patens Q1XGA9
Specificity:	Arabidopsis thaliana (leaf extract and isolated mitochondria).
Predicted Reactivity:	dicots including Cucumis melo, Glycine max, Pisum sativum, monocots including Oryza sativa, moss Physcomitrella patens
Characteristics:	Expected / apparent Molecular Weight of the Antigen: 29.4 / 30 kDa (for Arabidopsis thaliana)
Purification:	serum

Target Details

Target:	COXII
Alternative Name:	COXII

Target Details

Background:	AGI Code: ATMG00160 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
Molecular Weight:	expected: 29.4 kDa, apparent: 30 kDa (for <i>Arabidopsis thaliana</i>)
UniProt:	Q1XGA9 , P04373

Application Details

Application Notes:	Recommended Dilution 1 : 1000 (WB), 1 : 1000 (BN-PAGE).
Comment:	antibody detects COXII protein in total leaf extracts and isolated mitochondriaBlue 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.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	PBS pH 7.4
Handling Advice:	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. Once reconstituted make aliquots to avoid repeated freeze-thaw cycles.
Storage:	-20 °C

Publications

Product cited in:	Rurek, Woyda-Ploszczyca, Jarmuszkiewicz et al.: "Biogenesis of mitochondria in cauliflower (<i>Brassica oleracea</i> var. <i>botrytis</i>) curds subjected to temperature stress and recovery involves regulation of the complexome, respiratory chain activity, ..." in: Biochimica et biophysica acta , Vol. 1847, Issue 4-5, pp. 399-417, (2015) (PubMed). Wang, Vanlerberghe: "A lack of mitochondrial alternative oxidase compromises capacity to recover from severe drought stress." in: Physiologia plantarum , (2013) (PubMed).
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Hopff, Wienkoop, Lüthje: "The plasma membrane proteome of maize roots grown under low and high iron conditions." in: **Journal of proteomics**, Vol. 91, pp. 605-18, (2013) ([PubMed](#)).

Miller, Grant, Giles, Ribas-Carbo, Berry, Watling, Robinson: "In the heat of the night - alternative pathway respiration drives thermogenesis in *Philodendron bipinnatifidum*." in: **The New phytologist**, (2010) ([PubMed](#)).

Images

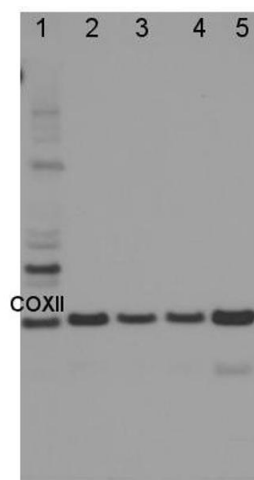


Image 1.