

Datasheet for ABIN93555
anti-COXII antibody



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Overview

Quantity:	100 µL
Target:	COXII
Reactivity:	Arabidopsis thaliana, Moss, Plantago euryphylla, Plantago major, Silene dioica, Silene uniflora, Wild Cabbage
Host:	Chicken
Clonality:	Polyclonal
Conjugate:	This COXII antibody is un-conjugated
Application:	Western Blotting (WB)

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
Isotype:	IgY
Specificity:	Arabidopsis thaliana (leaf extract and isolated mitochondria).
Cross-Reactivity (Details):	Not reactive in: no confirmed exceptions from predicted reactivity known in the moment
Predicted Reactivity:	eudicots, monocots
Characteristics:	Expected / apparent Molecular Weight of the Antigen: 29.4 / 30 kDa (for Arabidopsis thaliana)
Purification:	affinity purified

Target Details

Target:	COXII
Alternative Name:	COXII (COXII Products)
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.
Molecular Weight:	expected: 29.4 kDa, apparent: 30 kDa (for Arabidopsis thaliana)
UniProt:	P04373 , Q1XGA9

Application Details

Application Notes:	1:1000 with standard ECL (WB)
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS pH 8.0+ 0.02 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from liquid material adhering to the cap or sides of the tubes. Make aliquots to avoid repeated freeze-thaw cycles and working with a stock.
Storage:	4 °C
Storage Comment:	store at 4°C, make aliquots to avoid working with a stock. Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from liquid material adhering to the cap or sides of the tubes.

Publications

Product cited in:	Yoshida, Watanabe, Hachiya, Tholen, Shibata, Terashima, Noguchi: "Distinct responses of the mitochondrial respiratory chain to long- and short-term high-light environments in Arabidopsis
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thaliana." in: **Plant, cell & environment**, (2011) ([PubMed](#)).

Moellering, Benning: "Phosphate regulation of lipid biosynthesis in Arabidopsis is independent of the mitochondrial outer membrane DGS1 complex." in: **Plant physiology**, Vol. 152, Issue 4, pp. 1951-9, (2010) ([PubMed](#)).

Grant, Miller, Watling, Robinson: "Synchronicity of thermogenic activity, alternative pathway respiratory flux, AOX protein content, and carbohydrates in receptacle tissues of sacred lotus during floral development." in: **Journal of experimental botany**, Vol. 59, Issue 3, pp. 705-14, (2008) ([PubMed](#)).

Leroch, Neuhaus, Kirchberger, Zimmermann, Melzer, Gerhold, Tjaden: "Identification of a novel adenine nucleotide transporter in the endoplasmic reticulum of Arabidopsis." in: **The Plant cell**, Vol. 20, Issue 2, pp. 438-51, (2008) ([PubMed](#)).