

product **AS04 052**

### COXII | cytochrome oxidase subunit II

#### product information

<b>background</b>	<b>Cytochrome c oxidase</b> (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 ( <b>COXII</b> ) transfers the electrons from cytochrome c via its binuclear copper A center to the bimetallic center of the catalytic subunit 1.
<b>immunogen</b>	<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>
<b>antibody format</b>	hen polyclonal total IgY in PBS pH 8.0+ 0.02% sodium azide liquid
<b>quantity</b>	100 µl,
<b>storage</b>	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.
<b>tested applications</b>	western blot (WB)
<b>additional information</b>	to be added when available

#### application information

<b>recommended dilution</b>	1:1000 with standard ECL (WB)
<b>expected   apparent MW</b>	29.4   30 kDa (for <i>Arabidopsis thaliana</i> )
<b>confirmed reactivity</b>	<i>Arabidopsis thaliana</i> (leaf extract and isolated mitochondria), <i>Brassica oleracea</i> , <i>Plantago major</i> , <i>Plantago euryphylla</i> , <i>Physcomitrella patens</i> , <i>Silene uniflora</i> , <i>Silene dioica</i>
<b>predicted reactivity</b>	eudicots, monocots
<b>not reactive in</b>	no confirmed exceptions from predicted reactivity known in the moment
<b>additional information</b>	not available at the moment
<b>selected references</b>	not available at the moment