

product **AS06 152**

### AOX1 | alternative oxidase 1

#### product information

<b>background</b>	The mitochondrial <b>AOX</b> (alternative oxidase) of the unicellular green alga <i>Chlamydomonas reinhardtii</i> is encoded by two different genes, the Aox1 and Aox2. The alternative respiratory pathway is comprised of a single homodimeric protein – AOX – and functions as a mechanism to decrease the formation of reactive oxygen species (ROS) produced during respiratory electron transport. Alternative oxidase expression is influenced by different stress stimuli.
<b>immunogen</b>	whole presumed mature AOX1 protein from from <i>Chlamydomonas reinhardtii</i> <a href="#">Q65000</a> fused to GST
<b>antibody format</b>	rabbit polyclonal serum lyophilized
<b>quantity</b>	100 µl for reconstitution add 100 µl of sterile water.
<b>storage</b>	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.
<b>tested applications</b>	western blot (WB)
<b>additional information</b>	cellular [compartment marker] of <i>Chlamydomonas reinhardtii</i> mitochondrial inner membrane

#### application information

<b>recommended dilution</b>	1: 10 000 with alkaline phosphatase (WB)
<b>expected   apparent MW</b>	36   36 kDa ( <i>Chlamydomonas reinhardtii</i> )
<b>confirmed reactivity</b>	<i>Chlamydomonas reinhardtii</i>
<b>predicted reactivity</b>	<i>Ostreococcus lucimarinus</i> , <i>Aspergillus niger</i>
<b>not reactive in</b>	no confirmed exceptions from predicted reactivity known in the moment
<b>additional information</b>	to be added when available
<b>selected references</b>	<a href="#">Jacobs</a> et al (2008) A novel, anaerobically induced ferredoxin in <i>Chlamydomonas reinhardtii</i> . FEBS 583:325-329.