

product **AS08 306**

## Cyt f | cytochrome f protein (PetA) of thylakoid Cyt b6/f-complex

### product information

<b>background</b>	Multi-subunit complex of cytb6/f is a crucial component for the photosynthetic electron transport chain of higher plants, green algae and cyanobacteria. This complex is catalyzing oxidation of quinols and the reduction the reduction of plastocyanin. This reaction allows to establish the proton force required for the ATP synthesis. Four major subunits build the complex: the petA gene product corresponding to a c-type cytochrome (cyt f), the petB gene product corresponding to a b-type/c'-type cytochrome with three haems (cyt b6), the petD gene product (subunit IV, or suIV), and the petC gene product, corresponding to the Rieske/Iron/sulfur protein.
<b>immunogen</b>	maize cytochrome f purified from chloroplasts, including a final gel purification on a denaturing gel. protein used to elicit this antibody is conserved in <i>Arabidopsis thaliana</i> cyt f <a href="#">P56771</a> , <a href="#">AtCg00540</a>
<b>antibody format</b>	rabbit polyclonal serum lyophilized
<b>quantity</b>	50 µl for reconstitution add 50 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), immunogold (IG)
<b>related products</b>	<a href="#">AS06 119</a>   anti-cytochrome f (PetA) rabbit antibody <a href="#">AS07 231</a>   anti-cytochrome f (PetA) rabbit antibody
<b>additional information</b>	

### application information

<b>recommended dilution</b>	1: 2500- 1:5000 with standard ECL (WB), 1:120 (IG)
<b>expected   apparent MW</b>	31-32 kDa
<b>confirmed reactivity</b>	<i>Arabidopsis thaliana</i> , <i>Thermosynechococcus elongatus</i> , <i>Solanum lycopersicum</i> , <i>Zea mays</i>
<b>predicted reactivity</b>	dicots including: <i>Nicotiana tabacum</i> , <i>Solanum tuberosum</i> , monocots including: <i>Hordeum vulgare</i> , <i>Oryza sativa</i> , trees: <i>Populus trichocarpa</i>
<b>not reactive in</b>	no confirmed exceptions from predicted reactivity known in the moment

#### additional information

#### selected references

[Renato](#) et al. (2014). Tomato fruit chromoplasts behave as respiratory bioenergetic organelles during ripening. *Plant Physiol.* 2014 Aug 14. pii: pp.114.243931. (western blot, immunogold)