

product **AS08 306**

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

product information

background	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 (cytf), 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.
immunogen	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 P56771
antibody format	rabbit polyclonal serum lyophilized
quantity	100 µl for reconstitution add 100 µl of sterile water.
storage	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.
tested applications	western blot (WB)
additional information	

application information

recommended dilution	1: 2500- 1:5000 with standard ECL (WB)
expected apparent MW	31-32 kDa
confirmed reactivity	<i>Arabidopsis thaliana</i> , <i>Thermosynechococcus elongatus</i> , <i>Zea mays</i>
predicted reactivity	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>
not reactive in	no confirmed exceptions from predicted reactivity known in the moment
additional information	not available at the moment
selected references	Asakura & Barkan (2007) . A CRM domain protein functions dually in group I and group II intron splicing in land plant chloroplasts.Plant Cell 12:3864-3815

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Antibodies for research

This product is **for research use only** (not for diagnostic or therapeutic use)

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