

product **AS07 232**

Cyt b6 | thylakoid membrane cytochrome b6 protein

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 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.
immunogen	native <i>Zea mays</i> cytb6 protein run on SDS PAGE and excised from a gel piece
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), immunogold (IG), immunoprecipitation (IP)
additional information	to be added when available

application information

recommended dilution	1 : 5000 with alkaline phosphatase (WB), 1: 20 (IG), 1:1000 (IP)
expected apparent MW	23-25 kDa
confirmed reactivity	<i>Arabidopsis thaliana</i> , <i>Zea mays</i>
predicted reactivity	di and monocots
not reactive in	no confirmed exceptions from predicted reactivity known in the moment
additional information	immunogold localization has been done in leaf material of <i>Arabidopsis thaliana</i>
selected references	to be added when available