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product AS06 125

FeSOD | chloroplastic Fe-dependent superoxide dismutase

product information

background	Antioxidant system works as a defense against oxidative stress. SOD (superoxide dismutase) catalyzes the dismutation of superoxide into oxygen and H,O,. SODs are classified, according to their metal cofactor, as FeSOD, MnSOD, or Cu / ZnSOD. Chloroplasts generally contain Cu/ZnSOD and, in a number of plant species, FeSOD
immunogen	overexpressed *Chlamydomonas reinhardtii* thioredoxine fusion protein A8IGH1, FeSOD excised from a gel piece
antibody format	rabbit polyclonal serum lyophilized
quantity	200 µl for reconstitution add 200 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	to be added when available

application information

recommended dilution	1: 1500 to 1:5000 with alkaline phosphatase (WB)
expected | apparent MW	25 | 22 kDa
confirmed reactivity	*Armeria maritima, Arabidopsis thaliana, Chlamydomonas reinhardtii*, *Zea mays*
predicted reactivity	dicots including: *Glycine max, Solanum lycopersicum*, trees: *Pinus pinaster*, Populus balsamifera, moss: *Physcomitrella patens*, algae including: *Dunaliella salina, Volvox carteri*
not reactive in	cyanobacteria
additional information	The antibody will detect FeSOD enzyme only in plants grown on low Cu (0.1 µM).Reference: Salah et al (2005) Two P-type ATPases are required for copper delivery in Arabidopsis thaliana chloroplasts. Plant Cell, 17, 1233-1251
selected references	to be added when available

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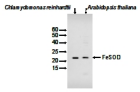
application example



5 µg of stromal protein from (**1**) *Chlamydomonas reinhardtii* (left), (**2**) *Arabidopsis thaliana* were separated on SDS-PAGE. Primary antibodies have been used in 1: 3000.