

product **AS09 647**

GSNOR | S-nitrosogluthathione reductase

product information

background	S-nitrosogluthathione reductase (GSNOR) is a cytoplasm localized enzyme which plays a key role in formaldehyde detoxification and is down regulated by wounding and activated by salicylic acid (SA). Alternative protein names: Alcohol dehydrogenase class-3, Alcohol dehydrogenase class-III, FALDH, FDH formaldehyde dehydrogenase, alcohol dehydrogenase III, HOT5, S-(hydroxymethyl)glutathione dehydrogenase, Glutathione-dependent formaldehyde dehydrogenase, GSH-FDH
immunogen	overexpressed, full length GSNOR derived from <i>Arabidopsis thaliana</i> Q96533
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	antibody is easily detecting GSNOR in a load per well of 5 µg of total <i>Arabidopsis</i> cell extract

application information

recommended dilution	1: 1000 with standard ECL (WB)
expected apparent MW	40.7 40.7 kDa
confirmed reactivity	<i>Arabidopsis thaliana</i>
predicted reactivity	dicots including: <i>Brassica napus</i> , <i>Pisum sativum</i> , <i>Ricinus communis</i> , <i>Solanum tuberosum</i> , monocots including: <i>Oryza sativa</i> , <i>Zea mays</i> , trees: <i>Populus balsamifera</i>
not reactive in	no confirmed exceptions from predicted reactivity known in the moment
additional information	to be added when available

selected references

Lee et al. (2008). Modulation of nitrosative stress by S-nitrosoglutathione reductase is critical for thermotolerance and plant growth in *Arabidopsis*. *The Plant Cell* 20: 786-802.

2 µg of total protein from (1) *Arabidopsis thaliana* WT and GSNOR null mutant were separated on 7.5% SDS-**PAGE** and blotted 1h to **nitrocellulose** (Biorad). Blots were incubated anti-GSNOR antibodies at a dilution of 1: 1 000 for 1h at room temperature with agitation and secondary HRP-conjugated antibody (1: 10 000 from Abcam).