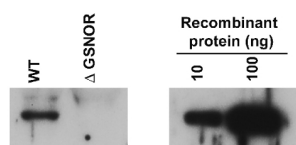


Product no **AS09 647****GSNOR | S-nitrosoglutathione reductase****Product information**

<b>Immunogen</b>	Overexpressed, full length GSNOR derived from <i>Arabidopsis thaliana</i> <a href="#">Q96533</a> , <a href="#">At5g43940</a>
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Purity</b>	Serum
<b>Format</b>	Lyophilized
<b>Quantity</b>	50 µl
<b>Reconstitution</b>	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 the tubes briefly prior to opening them to avoid any losses that might occur from material adhering to the cap or sides of the tube.
<b>Additional information</b>	Antibody is easily detecting GSNOR in a load per well of 5 µg of total <i>Arabidopsis thaliana</i> cell extract

**Application information**

<b>Recommended dilution</b>	1 : 1000 (WB)
<b>Expected   apparent MW</b>	40,7   40,7 kDa
<b>Confirmed reactivity</b>	<i>Arabidopsis thaliana</i> , <i>Brassica napus</i> , <i>Helianthus annuus</i> , <i>Stevia rebaudiana</i>
<b>Predicted reactivity</b>	<i>Brassica napus</i> , <i>Oryza sativa</i> , <i>Pisum sativum</i> , <i>Populus balsamifera</i> , <i>Ricinus communis</i> , <i>Solanum lycopersicum</i> , <i>Solanum tuberosum</i> , <i>Zea mays</i> Species of your interest not listed? <a href="#">Contact us</a>
<b>Not reactive in</b>	No confirmed exceptions from predicted reactivity are currently known
<b>Selected references</b>	<a href="#">Oláh et al. (2023)</a> . Suboptimal zinc supply affects the S-nitrosoglutathione reductase enzyme and nitric oxide signaling in Arabidopsis. Plant Stress Volume 10, December 2023, 100250. <a href="#">Kolbert et al. (2023)</a> . Nitro-oxidative response to internalized multi-walled carbon nanotubes in Brassica napus and Solanum lycopersicum. Ecotoxicol Environ Saf. 2023 Nov 15;267:115633. doi: 10.1016/j.ecoenv.2023.115633. <a href="#">Zhang et al (2021)</a> Induction of S-nitrosoglutathione reductase protects root growth from ammonium toxicity by regulating potassium homeostasis in Arabidopsis and rice. J Exp Bot. 2021 Mar 27;erab140. doi: 10.1093/jxb/erab140. Epub ahead of print. PMID: 33772588. <a href="#">Borbély et al. (2021)</a> The Effect of Foliar Selenium (Se) Treatment on Growth, Photosynthesis, and Oxidative-Nitrosative Signalling of Stevia rebaudiana Leaves. Antioxidants (Basel). Jan 8;10(1):E72. doi: 10.3390/antiox10010072. PMID: 33429850. <a href="#">Labudda et al. (2020)</a> . Cyst Nematode Infection Elicits Alteration in the Level of Reactive Nitrogen Species, Protein S-Nitrosylation and Nitration, and Nitrosoglutathione Reductase in Arabidopsis thaliana. Antioxidants (Basel) . 2020 Aug 26;9(9):E795.doi: 10.3390/antiox9090795. <a href="#">Molnár et al. (2020)</a> . Nitro-oxidative Signalling Induced by Chemically Synthesized Zinc Oxide Nanoparticles (ZnO NPs) in Brassica Species. Chemosphere, 251, 126419 <a href="#">Zhang et al. (2020)</a> . Glutathione-dependent denitrosation of GSNOR1 promotes oxidative signaling downstream of H2 O2. Plant Cell Environ. 2020 Jan 28. doi: 10.1111/pce.13727.

**Application example**

**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).