

Product no **AS09 524****Anti-MnSOD | Manganese superoxide dismutase****Product information**

**Immunogen** | KLH-conjugated synthetic peptide derived from available MnSOD sequences in di and monocotyl plants including *Arabidopsis thaliana* [O81235](#), [At3g10920](#)

**Host** | Rabbit

**Clonality** | Polyclonal

**Purity** | Serum

**Format** | Lyophilized

**Quantity** | 50 µl

**Reconstitution** | For reconstitution add 50 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 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.

**Additional information** | Freshly prepared reducing agent like DTT needs to be used in a sample buffer, Otherwise MnSOD will migrate at 50 kDa

**Application information**

**Recommended dilution** | 1 : 2000-1 : 5000 (WB)

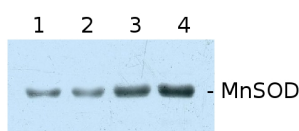
**Expected | apparent MW** | 25 | 25 kDa

**Confirmed reactivity** | *Arabidopsis thaliana*, *Amaranthus palmeri*, *Armeria maritima*, *Brassica napus*, *Brassica oleracea*, *Fragaria x ananassa*, *Iris pumila*, *Nepeta cataria*, *Nepeta rtanjensis*, *Oryza sativa*, *Pisum sativum*, *Salicornia* sp. , *Solanum tuberosum*, *Spinacia oleracea*

**Predicted reactivity** | *Glycine max*, *Gossypium mexicanum*, *Hordeum vulgare*, *Musa acuminata*, *Picea sitchensis*, *Populus balsamifera* sub. *trichocarpa*, *Raphanus sativus*, *Solanum tuberosum*, *Triticum aestivum*, *Vitis vinifera*, *Zea mays*  
Species of your interest not listed? [Contact us](#)

**Not reactive in** | algae, *Marchantia polymorpha*, *Prunus domestica*

**Selected references** | [Wittmann](#) et al. (2024). Dual plastid targeting of Protoporphyrinogen Oxidase 2 in Amaranthaceae promotes herbicide tolerance. *Plant Physiol.* 2024 Feb 8;kiae062.doi: 10.1093/plphys/kiae062.  
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[Yin](#) et al. (2016). Comprehensive Mitochondrial Metabolic Shift during the Critical Node of Seed Ageing in Rice. *PLoS One.* 2016 Apr 28;11(4):e0148013. doi: 10.1371/journal.pone.0148013. eCollection 2016.  
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**Application example**

5 µg (**1,2**), 10 µg (**3, 4**) of total protein from *Pisum sativum* were separated on 12% SDS-PAGE and blotted 30 min. to **PVDF**. Blots were blocked (in 5% fat free milk) immediately following transfer in for 1h at RT with agitation. Blots were incubated in the primary antibody at a dilution of 1:2 000 overnight in 4°C with agitation. The antibody solution was decanted and the blot was rinsed briefly twice, then washed 4 times for 5 min in TBS-T at RT with agitation. Blots were incubated in secondary antibody (anti- IgG horse radish peroxidase conjugated, from Agrisera, [AS09\\_602](#)) diluted to 1:20 000 for 1h at RT with agitation. The blots were washed 4 times for 5 min in TBS-T and 2 times for 5 min in TBS and developed for 1 min with ECL detection reagent according to the manufacturers instructions. Exposure time was 60 seconds.

Courtesy Dr. Elżbieta Romanowska, Warsaw University, Poland