

This product is for research use only (not for diagnostic or therapeutic use)

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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 ul

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

Application information

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

Expected | apparent

WN

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, Gossipium 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

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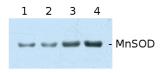
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<u>Vuleta</u> et al. (2016). Adaptive flexibility of enzymatic antioxidants SOD, APX and CAT to high light stress: The clonal perennial monocot Iris pumila as a study case. Plant Physiol Biochem. 2016 Mar;100:166-73. doi: 10.1016/j.plaphy.2016.01.011. Epub 2016 Jan 19

Application example





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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- lgG horse radish peroxidase conjugated, from Agrisera, <u>AS09 602</u>) 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