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Product no AS22 4842

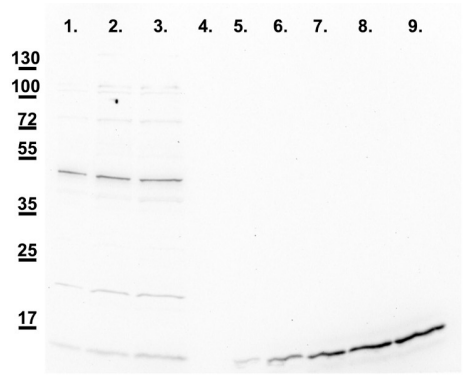
Anti-CSD1 | Cu/Zn superoxide dismutase 1 (cytosolic)

Product information

Immunogen	KLH-conjugated peptide derived from Arabidopsis thaliana CSD1, UniProt: P24704 TAIR: AT1G08830
Host	Rabbit
Clonality	Polyclonal
Purity	Antigern affinity purified serum, in PBS pH 7.4
Format	Lyophilized
Quantity	50 µg
Reconstitution	For reconstitution add 50 µl, of sterile or deionized 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.
Additional information	Note that depending upon used Western blot protocol (protein load/well, membrane and buffer type), obtained results may vary in terms of band intensity, as shown in application example.

Application information

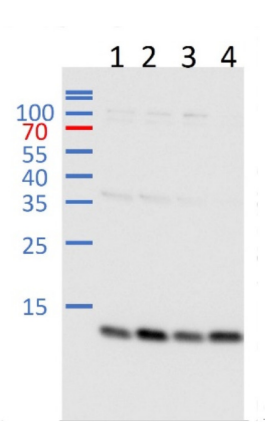
Recommended dilution	1 : 1000 (WB)
Expected | apparent MW	15 kDa
Confirmed reactivity	*Arabidopsis thaliana*
Predicted reactivity	*Brassica napus, Brassica rapa, Camelina sativa, Cannabis sativa, Capsella rubella, Capsicum annuum, Caragana korshinskii, Citrus sinensis, Cucumis sativus, Eutrema salsugineum, Glycine max, Malus domestica, Manihot esculenta, Medicago truncatula, Nicotiana tabcum, Pisum sativum, Populus alba x Populus x berolinensis, Raphanus sativus, Ricinus communis, Solanum lycopersicum, Solanum tuberosum, Spinacia oleracea,* Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Selected references	To be added when available, antibody available in May 2024.



Samples:
1. *Arabidopsis thaliana* WT seedling material, 10 µg
2. *Arabidopsis thaliana* WT seedling material, 20 µg
3. *Arabidopsis thaliana* WT seedling material, 30 µg
4. EMPTY
5. *Arabidopsis thaliana* CSD1 purified protein, 1 ng
6. *Arabidopsis thaliana* CSD1 purified protein, 5 ng
7. *Arabidopsis thaliana* CSD1 purified protein, 10 ng
8. *Arabidopsis thaliana* CSD1 purified protein, 15 ng
9. *Arabidopsis thaliana* CSD1 purified protein, 20 ng

10-30 µg/well of total protein were extracted from 8 day-old *Arabidopsis thaliana* seedlings material in 1.5x protein extraction buffer (90 mM Tris-HCl @ pH 6.8, 90 mM Dithiothreitol (DTT), 3% Sodium Dodecyl Sulfate (SDS), 22.5% Sucrose, 0.075% Bromophenol Blue). Samples were denatured at 95°C for 10 min and were separated on 4-20% gradient SDS-PAGE gels, followed by blotting for 1h to a nitrocellulose membrane (pore size of 0.45 um), using a semi-dry transfer. Blot was blocked with 5% milk in TBS-T at RT with agitation. Blot was incubated in the primary antibody at a dilution of 1:1000 in TBS-T, at 4°C, ON without agitation. The antibody solution was decanted, and the blot was rinsed briefly, then washed three times for 10 min in 10 mL TBS-T at RT with agitation. Blot was incubated in Agrisera matching secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated, AS09 602) diluted to 1: 5000 in TBS-T for 1h at RT with agitation. The blot was washed as above and developed for 2 min with Agrisera ECLBright.
Protein lanes are curved due to overheating during gel electrophoresis.

Courtesy of Dr. Patrick Treffon, UMASS, USA



15 µg/well of total protein extracted freshly from *Arabidopsis thaliana* 8-day-old seedlings extracted with a buffer containing 8M Urea. Samples were separated in the RT on 14 % SDS-PAGE and blotted for 2 h to PVDF (pore size of 0.2 um), using: wet transfer in the cold. Blot was blocked with 10 % milk for 1h/RT with agitation. Blot was incubated in the primary antibody at a dilution of 1: 3000 for 1h/RT with agitation in PBS with agitation. The antibody solution was decanted, and the blot was rinsed briefly twice, then washed once for 15 min and 3 times for 5 min in PBS at RT with agitation. Blot was incubated in matching secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated) diluted to 1: 5000 in for 1 h/RT with agitation. The blot was washed as above and developed with a following chemiluminescent detection. Exposure time was 1 minute.

Courtesy of Dr. Kuo-En Chen, Dr. Vierstra's lab, Department of Biology, Washington University in St. Louis, USA