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Product no AS20 4424

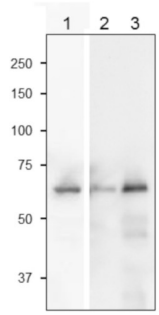
Anti-SiR | Sulfite reductase [ferredoxin], chloroplastic

Product information

Immunogen	Purified full length, tag cleaved, recombinant *Zea mays* SiR, UniProt: O23813
Host	Rabbit
Clonality	Polyclonal
Purity	Total IgG. Protein A purified in PBS, 50% glycerol. Filter sterilized.
Format	Liquid at 4 mg/ml.
Quantity	200 µg
Storage	Store 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.

Application information

Recommended dilution	assay dependent (ELISA), 1: 1000 - 1: 5000 (WB)
Expected | apparent MW	70 kDa (*Zea mays*), 72 kDa (*Arabidopsis thaliana*)
Confirmed reactivity	*Arabidopsis thaliana, Pisum sativum, Zea mays*
Predicted reactivity	*Dichanthelium oligosanthes, Panicum hallii, Setaria viridis, Sorghum bicolor* Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Additional information	This antibody is also recognizing recombinant SiR protein from *Zea mays*.
Selected references	Sato et al. (2001). The 70-kDa major DNA-compacting protein of the chloroplast nucleoid is sulfite reductase. FEBS Lett. 2001 Jan 5;487(3):347-50.doi: 10.1016/s0014-5793(00)02342-5. (Western blot, pea) Sakibara et al. (2000). Analysis of reductant supply systems for ferredoxin-dependent sulfite reductase in photosynthetic and nonphotosynthetic organs of maize. Plant Physiol. 2000 Mar;122(3):887-94.doi: 10.1104/pp.122.3.887. (Western blot, maize)



Recombinant SiR from *Zea mays* **(1)**, 10 µg of *Arabidopsis thaliana* total leaf extract **(2)**, 10 µg of *Zea mays* total leaf extract **(3)**,were freshly extracted with 2x SDS-sample buffer (+ 2ME) for SDS-PAGE and denatured with 4X SDS buffer at 95°C for 5 min. Samples were separated on 10% SDS-PAGE and blotted 1h to PVDF membrane. Blot was blocked with 3 % skim milk/TBS-T, 1h/RT with agitation. Blot was incubated in the primary antibody at a dilution of 1: 1000 in TBS-T for 1h/RT. The antibody solution was decanted and the blot was washed 4 times for 10 min in TBS-T at RT with agitation. Blot was incubated in matching secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated) diluted to 1:10 000 in for 1h/RT with agitation. The blot was washed as above and developed with a chemiluminescent detection reagent, following manufacture's recommendation.

Molecular weight of SiR is 72 kDa in *Arabidopsis thaliana* and 70 kDa in *Zea mays*.