product information

**Background**
Antioxidant system works as a defense against oxidative stress. SOD (superoxide dismutase) catalyzes the dismutation of superoxide into oxygen and H2O2. SODs are classified, according to their metal cofactor, as FeSOD, MnSOD, or Cu/ZnSOD. Chloroplasts generally contain Cu/ZnSOD and, in a number of plant species, FeSOD.

**Immunogen**
Overexpressed Arabidopsis thaliana Cu/ZnSOD (O78310, At2g28190) with an N-terminal His-tag. Purified via Ni-column. The His-tag was cleaved and the protein was recovered via ion exchange on a 10 ml resource-Q (Pharmacia) column using a NaCl gradient. Pure fractions after dialysis against PBS has been used for immunization.

**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 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.

**Tested applications**
Western blot (WB)

**Related products**
- AS06 125 | Anti-FeSOD | chloroplastic Fe-dependent superoxid dismutase, rabbit antibodies
- AS07 219 | Anti-CCS | chloroplastic copper chaperone for SOD, rabbit antibodies
- AS09 524 | Anti-MnSOD | manganese superoxide dismutase, rabbit antibodies
- Collection of antibodies to plant stress proteins
- Plant protein extraction buffer
- Secondary antibodies

**Additional information**
This product can be sold containing ProClin if requested.

**Application information**

**Recommended dilution**
1 : 1000-1 : 4000 (WB)

**Expected | apparent MW**
22 | 19 kDa (Arabidopsis thaliana)

**Confirmed reactivity**

**Predicted reactivity**
Glycine max, Pinus pinaster, Zea mays

**Not reactive in**
No confirmed exceptions from predicted reactivity are currently known.

**Additional information**
Note: Antibody is recognizing 19 kDa protein Csd2 (chloroplastic enzyme) and gives also low but noticeable reactivity to Csd1 (15 kDa) a cytosolic form.
Selected references


