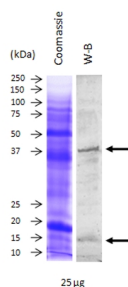


Product no **AS10 652****Cu/ZnSOD | Cu/Zn superoxide dismutase****Product information**

<b>Immunogen</b>	15 amino acids synthetic peptide designed from olive pollen cytosolic Cu/Zn cDNA consensus sequences (GenBank Accessions EU250757 to EU250797), UniProt <a href="#">Q8L5E0</a>
<b>Host</b>	Chicken
<b>Clonality</b>	Polyclonal
<b>Purity</b>	Purified, total IgY in 10 mM Tris, 150 mM NaCl, 0.02% sodium azide.
<b>Format</b>	Liquid
<b>Quantity</b>	100 µl
<b>Storage</b>	Store at 4°C. 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.
<b>Additional information</b>	Total IgY concentration is 2.3 mg/ml.  Reaction of the antibody to chloroplastic SOD isoform has not been determined yet.

**Application information**

<b>Recommended dilution</b>	1 : 1500 with Alexa 488 (WB)
<b>Expected   apparent MW</b>	15.3   16 kDa ( <i>Olea europaea</i> L.)
<b>Confirmed reactivity</b>	<i>Arabidopsis thaliana</i> (leaves), <i>Lilium longiflorum</i> , <i>Olea europaea</i> (pollen), <i>Oryza sativa</i> , <i>Spinacia oleracea</i> (leaves), <i>Solanum lycopersicum</i> , <i>Zea mays</i>
<b>Predicted reactivity</b>	<i>Ananas ananas</i> , <i>Betula pendula</i> , <i>Camellia sinensis</i> , <i>Codonis lanceolata</i> , <i>Cucurbita ficifolia</i> , <i>Helianthus sp.</i> , <i>Hordeum vulgare</i> , <i>Lycopersicum esculentum</i> , <i>Plantago major</i> , <i>Populus trichocarpa</i> , <i>Solanum nigrum</i> , <i>Solanum tuberosum</i> , <i>Solidago sp.</i> , <i>Vitis vinifera</i>  Species of your interest not listed? <a href="#">Contact us</a>
<b>Not reactive in</b>	<i>Helianthus annuus</i> , <i>Nicotiana tabacum</i> , <i>Marchantia polymorpha</i> , <i>Musa acuminata</i> , <i>Vicia faba</i>
<b>Additional information</b>	Note: Antibody recognizes two to three isoforms of Cu/Zn SOD in olive pollen depending on the olive cultivar
<b>Selected references</b>	<a href="#">Adhikari et al. (2018)</a> . Sulfate improves cadmium tolerance by limiting cadmium accumulation, modulation of sulfur metabolism and antioxidant defense system in maize. <i>Environmental and Experimental Botany</i> Volume 153, September 2018, Pages 143-162. <a href="#">Bastow et al. (2018)</a> . Vacuolar Iron Stores Gated by NRAMP3 and NRAMP4 Are the Primary Source of Iron in Germinating Seeds. <i>Plant Physiol.</i> 2018 Jul;177(3):1267-1276. doi: 10.1104/pp.18.00478. <a href="#">Alché et al. (1998)</a> . Identification and immunolocalization of superoxide dismutase isoenzymes of olive pollen". <i>Physiol. Plantarum</i> 104, 772-776.

**Application example**

**25 µg** of total protein from *Olea europaea* pollen were separated on 12% acrylamide gels and blotted onto PVDF. Membranes were blocked 1h with 2% low-fat milk powder in TBS-T (0.1% TWEEN 20) and probed with anti-Cu/Zn SOD (AS10 652, 1:1500, overnight, 4° C) and secondary antibody anti-chicken IgG conjugated to Alexa 488 (1:2000, 1 h) (Molecular Probes, Invitrogen). Signal was detected with a PharosSX fluorescence scanner (Bio-Rad).

The antibody recognizes a protein of c.a. 16 kDa. and another band likely corresponding to the protein dimer.

Courtesy Dr. Juan de Dios Alche, CSIC, Spain