

product **AS06 184**

AO | apoplastic ascorbate oxidase

product information

background	Ascorbate oxidase (AO) is an apoplastic enzyme involved in metabolism of plant ascorbate (AA). Ascorbate (AA) plays a key role in defense against oxidative stress and is particularly abundant in photosynthetic tissues. Over 90% of the ascorbate is localized in the cytoplasm, but a substantial proportion is exported to the apoplast.
immunogen	ascorbate oxidase purified from <i>Cucurbita</i> sp.
antibody format	rabbit polyclonal total IgG in PBS pH 7.4 lyophilized
quantity	100 µl for reconstitution add 100 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)
additional information	IgG concentration is 4 µg/µl

application information

recommended dilution	1:2 000 with standard ECL (WB)
expected apparent MW	61 45 kDa (<i>Cucurbita pepo</i>)
confirmed reactivity	<i>Cucurbita</i> sp., <i>Nicotiana tabacum</i> , <i>Solanum tuberosum</i> , <i>Zea mays</i>
predicted reactivity	dicots including <i>Glycine max</i> , monocots including <i>Oryza sativa</i>
not reactive in	no confirmed exceptions from predicted reactivity known in the moment
additional information	antibody can be used as a marker of apoplast
selected references	Kielbowicz et al. (2008) The organ-dependent abundance of a <i>Solanum</i> lipid transfer protein is up-regulated upon osmotic constraints and associated with cold acclimation ability. J. Expo Bot. 59:2191-2203.

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Antibodies for research

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

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