

product **AS09 384**
AO | 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 7.2 lyophilized
quantity	1 mg for reconstitution add 0.5 ml 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. Working dilutions should be stored at 4°C, not refrozen and preferably used the same day. If slight precipitation occurs upon storage, this should be removed by centrifugation. It will not affect the performance of the product.
tested applications	Western blot (WB), ELISA (ELISA), immunohistochemistry (IHC)
additional information	IgG protein fraction is prepared by ammonium sulphate precipitation and ion exchanged chromatography.

application information

recommended dilution	1: 1000 (WB), 1: 1000 - 1: 30 000 (ELISA)
expected apparent MW	61 45 kDa (<i>Cucurbita pepo</i>)
confirmed reactivity	<i>Cucurbita</i> sp.
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	to be added when available
selected references	to be added when available