

product **AS09 501**
Catalase

product information

background	Catalase is an enzyme found in most living organisms which is catalyzing decomposition of hydrogen peroxide to water and oxygen. In plant cells catalase is found in peroxisomes. This enzyme is involved in photorespiration and symbiotic nitrogen fixation.
immunogen	<u>KLH</u> -conjugated peptide chosen from known plant catalase sequences including <i>Arabidopsis thaliana</i>
antibody format	rabbit polyclonal, serum
quantity	200 µl
storage	store at -20°C; 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	This antibody is also recognizing <i>Arabidopsis thaliana</i> AtCAT2 isoform.

application information

recommended dilution	1: 1000 with standard ECL (WB)
expected apparent MW	57 55 kDa
confirmed reactivity	<i>Arabidopsis thaliana</i> , <i>Brassica oleracea</i> , <i>Hordeum vulgare</i> , <i>Nicotiana bentamina</i> , <i>Oryza sativa</i> , <i>Solanum lycopersicum</i> , <i>Spinacia oleracea</i> , <i>Zea mays</i>
predicted reactivity	dicots including: <i>Gossypium mexicanum</i> , <i>Vitis vinifera</i> , trees: <i>Populus jackii</i>
not reactive in	no confirmed exceptions from predicted reactivity known in the moment
additional information	To obtain reactivity with <i>Solanum lycopersicum</i> urea gel needs to be applied. Please, contact us for more details.
selected references	<u>Ray</u> et al. (2011). Expression and purification of soluble bio-active rice plant catalase-A from recombinant <i>Escherichia coli</i> . J. Biotechnology

