

product **AS08 374**

KatG | catalase peroxidase (HPI), cyanobacterial

product information

background	catalase peroxidase (EC 1.11.1.7) is a bifunctional antioxidant enzyme encoded by the <i>katG</i> -gene. It exhibits both, catalase and peroxidase activity which provides a protection against oxidative stress by neutralising hydrogen peroxide. The enzyme is present in a number of bacterial taxa, including cyanobacteria.
immunogen	recombinant full length KatG protein from <i>Synechocystis</i> sp. PCC 6803 (accessions P73911 and sl11987) with six His-tag on the terminus.
antibody format	rabbit polyclonal serum lyophilized
quantity	200 µl for reconstitution add 200 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	not available at the moment

application information

recommended dilution	1: 3000 on 10 µg protein/lane with standard ECL (WB)
expected apparent MW	84.4 /84.4 kDa for <i>Synechocystis</i> sp. PCC 6803
confirmed reactivity	<i>Synechocystis</i> sp. PCC 6803
predicted reactivity	<i>Synechococcus</i> sp. including PCC 7302 and <i>S.elongatus</i> (PCC 6301, PCC 7942); other bacteria
not reactive in	n.a.
additional information	not available at the moment
selected references	not available yet, antibody released in November 2008

