

product **AS05 075**
SHMT | serine hydroxymethyltransferase

product information

background	Serine hydroxymethyltransferase (SHMT) is part of the mitochondrial enzyme complex.
immunogen	purified SHMT protein from <i>Spinacia oleracea</i>
antibody format	rabbit polyclonal total IgG in PBS pH 7.4 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)
related products	AS05 074 anti-GDC-H rabbit antibody, marker of mitochondrial matrix AS06 203A anti- Idh isocitrate dehydrogenase rabbit antibody, marker of mitochondrial matrix AS07 212 anti-VDAC1 marker antibody for mitochondrial outer membrane
additional information	to be added when available

application information

recommended dilution	1:5 000 with standard ECL (WB)
expected apparent MW	53 kDa (<i>Arabidopsis thaliana</i>)
confirmed reactivity	<i>Arabidopsis thaliana</i> , <i>Pisum sativum</i> , <i>Spinacia oleracea</i>
predicted reactivity	dicots including: <i>Glycine max</i> , <i>Medicago truncatula</i> , <i>Ricinus communis</i> , <i>Solanum tuberosum</i> , <i>Vitis vinifera</i> , monocots: <i>Hordeum vulgare</i> , trees: <i>Populus balsamifera</i> , algae: <i>Chlamydomonas reinhardtii</i>
not reactive in	no confirmed exceptions from predicted reactivity known in the moment
additional information	this antibody can be used on total leaf extracts and isolated mitochondria
selected references	Wei et al. (2013) . Folate polyglutamylation eliminates dependence of activity on enzyme concentration in mitochondrial serine hydroxymethyltransferases from <i>Arabidopsis thaliana</i> . Arch Biochem Biophys 1;536(1):87-96. Camejo et al. (2012) . Salinity-induced changes in S-nitrosylation of pea mitochondrial proteins. J. Proteomics Dec.11.

application example

total leaf extract from *Arabidopsis thaliana* has been loaded per lane based on a leaf disc area. Primary antibody has been used in dilution 1: 5000 following detection using standard ECL. c

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

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