

product **AS08 326**

Sar1 | secretion-associated and Ras-related protein 1

product information

background	Sar1 belongs to a small GTPase superfamily and GTP binding activity. This protein is involved in intracellular protein transport. There are two different non-clathrin-coated vesicles that are responsible for transport between ER and the Golgi. Coat protein complexes involving membrane-associated GTP binding proteins – Arf1 and Sar1p for COPI and COPII are needed for formation of COP-coated vesicles. Sar1p is a cytosolic protein. It is temporarily recruited onto the membranes of the ER.
immunogen	GST fusion of full length recombinant Sar1 of <i>Arabidopsis thaliana</i> <u>Q8VYP7</u>
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), immunogold (IG)
additional information	For immunogold experiments plant tissue has been fixed with GA in PFA/PIPES. LR White resin has been used. Tested species were: <i>Triticum aestivum</i> , <i>Panicum miliaceum</i> , <i>Panicum maximum</i> , <i>Echinochloa crus-galli</i> <i>Eragrostis neomexicana</i> , <i>Digitaria sanguinalis</i> . Publication in preparation.

application information

recommended dilution	1: 500 with standard ECL (WB), 1: 50 (IG)
expected apparent MW	21 kDa (<i>Arabidopsis thaliana</i>)
confirmed reactivity	<i>Arabidopsis thaliana</i> , <i>Echinochloa crus-galli</i> <i>Eragrostis neomexicana</i> , <i>Digitaria sanguinalis</i> , <i>Pteris vittata</i> (fern), <i>Panicum miliaceum</i> , <i>Panicum maximum</i> , <i>Triticum aestivum</i> , <i>Zea mays</i>
predicted reactivity	dicots including <i>Brassica campestris</i> , <i>Solanum tuberosum</i> monocots including <i>Triticum aestivum</i> , <i>Oryza sativa</i> , tree: <i>Populus trichocarpa</i> , moss <i>Physcomitrella patens</i>

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

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not reactive in | *Nicotiana tabacum*

additional information | to be added when available

selected references | [Tnani](#) et al. (2011). Protein composition analysis of oil bodies from maize embryos during germination. *Plant Physiol.* 168 (5): 510-513.