

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

contact: support@agrisera.com

Agrisera AB | Box 57 | SE-91121 Vännas | Sweden | +46 035 33033 | www.agrisera.com

product AS03 035A

SPS | sucrose phosphate synthase, global

product information

SPS (sucrose phosphate synthase, EC 2.4.1.14) is the key enzyme of carbon flux

into sucrose fixation in plants. It catalyzes the synthesis of sucrose-phosphate from UDP-glucose and fructose-6-phosphate predominantly in the cytosol of

sucrose-source leaf tissue.

immunogen Synthetic peptide derived from conserved region within plant SPS protein

sequences, including Arabidopsis thaliana At1g04920

antibody format rabbit polyclonal, affinity purified serum in PBS pH 7.4, lyophilized

quantity 200 μg - for reconstitution add 100 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 to be added when available

application information

recommended dilution 1: 1000 - 1: 5000 with standard ECL (WB)

expected | apparent 120 | 120-130 kDa (fragments of 30/90 kDa may be detected)

confirmed reactivity Arabidopsis thaliana, Hordeum vulgare, Lycopersicum esculentum, Lycopersicum

penelli, Solanum tuberosum, Triticum aestivum, Zea mays

predicted reactivity dicots and monocots, Physcomitrella patens

not reactive in no confirmed exceptions from predicted reactivity known in the moment

additional information to be added when available

selected references Bölter et al. (2007) Localization of Arabidopsis NDPK2-revisited. Planta 226:

1059-1056

Whittaker et al. (2007) Sucrose phosphate synthase activity and the co-ordination of carbon partitioning during sucrose and amino acid accumulation in desiccation-tolerant leaf material of the C4 resurrection plant Sporobolus

stapfianus during dehydration. J Ex. Bot. 58: 3775-3787

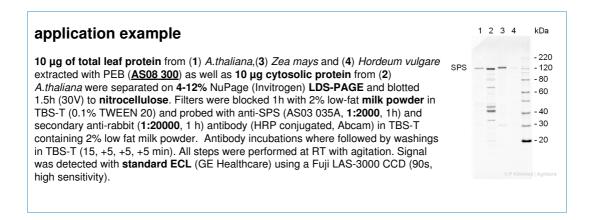
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