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Product no AS03 035A

SPS | Sucrose phosphate synthase, global

Product information

KLH-conjugated synthetic peptide derived from conserved region within plant SPS protein sequences, including

Arabidopsis thaliana isoforms 1F Q94BT0, 2F, 3F and 4F. Oryza sativa Q67WN8, Solanum tuberosum Q43845

Host Rabbit

Clonality Polyclonal

Purity Immunogen affinity purified serum in PBS pH 7.4.

Format Lyophilized

Quantity 50 μg

Reconstitution For reconstitution add 25 µl of sterile water

Store lyophilized/reconstituted at -20 °C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please remember to spin the tubes briefly prior to opening them to avoid any losses that might occur from material adhering to

the cap or sides of the tube.

Application information

Recommended dilution 1:1000-1:5000 (WB)

Expected | apparent

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

Confirmed reactivity

Arabidopsis thaliana, Brassica napus, Colobanthus quitensis Kunt Bartl, Hordeum vulgare, Lycopersicum esculentum, Lycopersicum penelli, Miscanthus x giganteus, Pinus strobus, Solanum tuberosum, Triticum aestivum, Pinus strobus,

Zea mays

Predicted reactivity Citrus sinensis, Glycine max, Nicotiana benthamiana, Nicotiana tabacum, Oryza sativa, Physcomitrium patens, Populus

balsamifera, Robinia pseudoacaci, Ricinus communis, Saccharum officinarum, Solanum lycopersicum, Theobroma

cacao, Vicia faba, Vitis vinifera, Species of your interest not listed? Contact us

Not reactive in No confirmed exceptions from predicted reactivity are currently known

Additional information Peptide used to elicit anti-SPS antibodies is perfectly conserved in all isoforms of SPS in plants

Selected references Bilska-Kos et al. (2020). Sucrose phosphate synthase (SPS), sucrose synthase (SUS) and their products in the leaves

of Miscanthus× giganteus and Zea mays at low temperature. Planta . 2020 Jul 16;252(2):23. doi: 10.1007/s00425-020-03421-2.

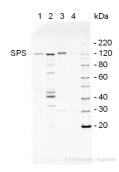
Chen et al. (2018). TIC236 links the outer and inner membrane translocons of the chloroplast. Nature. 2018

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Zhang et al. (2014). Heterologous expression of AtPAP2 in transgenic potato influences carbon metabolism and tuber

development. FEBS Lett. 2014 Aug 27. pii: S0014-5793(14)00621-8. doi: 10.1016/j.febslet.2014.08.019.

Application example



10 μg of total leaf protein from (1) A.thaliana,(3) Zea mays and (4) Hordeum vulgare extracted with PEB (AS08 300) as well as 10 μg cytosolic protein from (2) A.thaliana were separated on 4-12% NuPage (Invitrogen) LDS-PAGE and blotted 1.5h (30V) to nitrocellulose. Filters were blocked 1h with 2% low-fat milk powder in TBS-T (0.1% TWEEN 20) and probed with anti-SPS (AS03 035A, 1:2000, 1h) and secondary anti-rabbit (1:20 000, 1 h) antibody (HRP conjugated) in TBS-T containing 2% low fat milk powder. Antibody incubations where followed by washings in TBS-T (15, +5, +5 min). All steps were performed at RT with agitation. Signal was detected with chemiluminescent detection reagent, using a Fuji LAS-3000 CCD (90s, high sensitivity).