

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

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Product no AS15 2873

Anti-SBPase | Sedoheptulose-1,7-bis phosphatase

Product information

Immunogen

KLH-conjugated synthetic peptide conserved across known protein sequences of SBP including Arabidopsis thaliana UniProt: P46283, TAIR: AT3G55800

Host Rabbit

Clonality Polyclonal

Purity Immunogen affinity purified serum in PBS pH 7.4.

Format Lyophilized

Quantity 50 μg

Reconstitution For reconstitution add 50 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

Confirmed reactivity

Arabidopsis thaliana, Chlamydomonas sp. (strain W80), Cucumis sativus, Gossypium hirsutum, Hordeum vulgare, Oryza sativa, Setaria viridis, Zea mays

Predicted reactivity

Arabidopsis lyrata, Auxenochlorella protothecoides, Brachypodium distachyon , Brassica rapa, Coccomyxa subellipsoidea C-169 GN, Dunaliella tertiolecta, Ectocarpus siliculosus, Genlisea aurea, Glycine soja, Gossypium raimondii , Marchantia polymorpha, Medicago truncatula, Mesostigma viride, Morus notabilis, Nannochloropsis sp., Nicotiana tabacum, Populus trichocarpa, Ricinus communis, Sorghum bicolor, Spinacia oleracea, Tetraselmis sp. GSL018, Theobroma cacao, Triticum aestivum, Triticum urartu, Zea mays, Volvox carteri Species of your interest not listed? Contact us

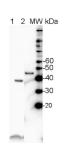
Not reactive in Cyanobacteria, Physcomitrella patens

Selected references

Ermakova et al. (2024). Chloroplast NADH dehydrogenase-like complex-mediated cyclic electron flow is the main electron transport route in C4 bundle sheath cells. New Phytol. 2024 Jul 22.doi: 10.1111/nph.19982. Li et al. (2021) Did breeding alter the light environment, photosynthetic apparatus and photosynthetic capacity of wheat leaves? J Exp Bot. 2021 Nov 10:erab495. doi: 10.1093/jxb/erab495. Epub ahead of print. PMID: 34758079. Hammel et al. (2020) Photosynthesis in Chlamydomonas reinhardtii and Has No Effect on the Abundance of Other Calvin-Benson Cycle Enzymes. Front Plant Sci. 2020 Jun 23;11:868. doi: 10.3389/fpls.2020.00868. PMID: 32655601; PMCID: PMC7324757.

Fukayama et al. (2018). Expression level of Rubisco activase negatively correlates with Rubisco content in transgenic rice. Photosynth Res. 2018 May 30. doi: 10.1007/s11120-018-0525-9.

Li et al. (2018). Comparative proteomic analysis of key proteins during abscisic acid-hydrogen peroxide-induced adventitious rooting in cucumber (Cucumis sativus L.) under drought stress. Journal of Plant Physiology Volume 229, October 2018, Pages 185-194.



10 µg of total protein from Arabidopsis thaliana leaf (1), SBPase protein standard AS15 2873S (2) were extracted with Agrisera Protein Extraction Buffer PEB (AS08 300). Samples were diluted with 1X sample buffer (NuPAGE LDS sample buffer (Invitrogen) supplemented with 50

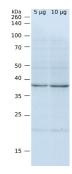


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mM DTT and heat at 70 °C for 5 min and keept on ice before loading. Protein samples were separated on 4-12% Bolt Plus gels, LDS-PAGE and blotted for 70 minutes to PVDF using tank transfer. Blots were blocked immediately following transfer in 2% blocking reagent or 5% non-fat milk dissolved in 20 mM Tris, 137 mM sodium chloride pH 7.6 with 0.1% (v/v) Tween-20 (TBS-T) for 1h at room temperature with agitation. Blots were incubated in the primary antibody at a dilution of 1: 10 000 (in blocking reagent) for 1h at room temperature with agitation. The antibody solution was decanted and the blot was rinsed briefly twice, and then washed 1x15 min and 3x5 min with TBS-T at room temperature with agitation. Blots were incubated in secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated, recommended secondary antibody AS09 602, Agrisera) diluted to 1:25 000 in blocking reagent for 1h at room temperature with agitation. The blots were washed as above. The blot was developed for 5 min with chemiluminescent detection reagent of extreme femtogram sensitivity, according the manufacturers instructions. Images of the blots were obtained using a CCD imager (VersaDoc MP 4000) and Quantity One software (Bio-Rad). Exposure time was 30 seconds.



5 or 10 µg of total protein from *Chlamydomonas reinhardtii* extracted with 10 mM Tris/HCl pH7.5, 80 mM NaCl, 1 mM EDTA, 1 % (w/v) Glycerol, 1 mM DTT, 1x protease inhibitor cocktail (Roche) and denatured in SDS sample buffer for 5 min. at 95 °C were separated on 12 % SDS-PAGE and blotted over night to nitrocellulose using tank transfer. Blots were blocked with 3 % milk; for 1h at room temperature (RT) with agitation. Blot was incubated in the primary antibody at a dilution of 1: 2 500 in blocking buffer for 1h at RT with agitation. The antibody solution was decanted and the blot was rinsed briefly twice, then washed once for 5 min. 5x in TBS-T (0.05 %) at RT with agitation. Blot was incubated in secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated from Agrisera AS09 602) diluted to 1:25 000; for 1h at RT with agitation. The blot was washed as above and developed using Luminol-H₂O₂ and p-Coumaric acid. Exposure time of X-ray film was 1 hour.

Courtesy of Dr. Sebastian Mahlow, Prof. Maria Mittag, Institute of General Botany and Plant Physiology, University of Jena, Germany