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Product no AS19 4319

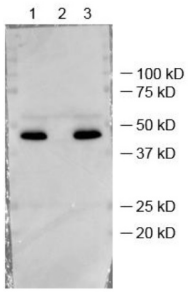
Anti-FBPase1 | Fructose-1,6-bisphosphatase 1, chloroplastic (chloroplastic marker in photosynthetic tissues)

Product information

Immunogen	KLH-conjugated peptide derived from Arabidopsis thaliana FBPase1 (chloroplastic), UniProt: P25851-1, TAIR: AT3G54050
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
Storage	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 : 50 000 (WB)
Expected | apparent MW	45 | 48 kDa
Confirmed reactivity	*Arabidopsis thaliana*
Predicted reactivity	*Abrus precatorius, Actinidia chinensis, Arabis nemorensis, Beta vulgaris, Brassica napus, Capsella rubella, Cephalotus follicularis, Eucalyptus grandis, Gossypium tomentosum, Hibiscus syriacus, Manihot esculenta, Morella rubra, Mucuna pruriens, Nelumbo nucifera, Parasponia andersonii, Populus* sp.*, Prunus dulcis, Prunus persica, Salvia splendens, Syzygium oleaosum, Vitis vinifera* Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Selected references	Penzler et al. (2024). A pgr5 suppressor screen uncovers two distinct suppression mechanisms and links cytochrome b6f complex stability to PGR5. Plant Cell. 2024 Mar 27:koae098. doi: 10.1093/plcell/koae098. Penzler et al. (2022) Commonalities and specialties in photosynthetic functions of PROTON GRADIENT REGULATION5 variants in Arabidopsis. Plant Physiol. 2022;190(3):1866-1882. doi:10.1093/plphys/kiac362 Wang et al. (2022), Arabidopsis Ubiquitin-Conjugating Enzymes UBC4, UBC5, and UBC6 Have Major Functions in Sugar Metabolism and Leaf Senescence, Int. J. Mol. Sci. 2022, 23(19), 11143; https://doi.org/10.3390/ijms231911143 Lim et al (2022). Arabidopsis guard cell chloroplasts import cytosolic ATP for starch turnover and stomatal opening. Nat Commun. 2022 Feb 3;13(1):652. doi: 10.1038/s41467-022-28263-2. PMID: 35115512; PMCID: PMC8814037.



20 µg/well of total protein of Arabidopsis thaliana wildtype **(1)**, chloroplastic FBPase mutant **(2)**, mutant line of a different gene **(3)** were freshly extracted from 8-week old leaves with buffer (50 mM Tris-HCl pH8.0, 200 mM NaCl, 10 mM DTT (dithiothreitol), 1% (v/v) Triton X-100, Sigma protease inhibitor cocktail) and denatured with 4X SDS buffer at 95°C for 5 min. Samples were separated on 10% SDS-PAGE and blotted 1h to PVDF membrane (pore size of 0.2 um), using wet transfer. Blot was blocked with 5% milk for 0.5h/RT with agitation. Blot was incubated in the primary antibody at a dilution of 1: 50, 000 (from the initial reconstituded antibody solution at 1 µg IgG/µl) in PBS-T for ON at 4°C with agitation.

The antibody solution was decanted and the blot was washed 4 times for 10 min in PBS-T at RT with agitation. Blot was incubated in Agrisera matching secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated AS09 602, Agrisera) diluted to 1:25 000 in for 1h/RT with agitation. The blot was washed as above and developed for 1 min with Agrisera ECL SuperBright, AS16 ECL-S. Exposure time was 2 mins.

Courtesy Dr Hong Wang, University of Saskatchewan, Canada