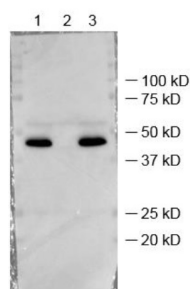


Product no **AS19 4319****FBPase1 | Fructose-1,6-bisphosphatase 1, chloroplastic (chloroplastic marker in photosynthetic tissues)****Product information**

<b>Immunogen</b>	KLH-conjugated peptide derived from Arabidopsis thaliana FBPase1 (chloroplastic), UniProt: <a href="#">P25851-1</a> , TAIR: <a href="#">AT3G54050</a>
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Purity</b>	Immunogen affinity purified serum in PBS pH 7.4.
<b>Format</b>	Lyophilized
<b>Quantity</b>	50 µg
<b>Reconstitution</b>	For reconstitution add 50 µl, of sterile water
<b>Storage</b>	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**

<b>Recommended dilution</b>	1 : 50 000 (WB)
<b>Expected   apparent MW</b>	45   48 kDa
<b>Confirmed reactivity</b>	<i>Arabidopsis thaliana</i>
<b>Predicted reactivity</b>	<i>Abrus precatorius</i> , <i>Actinidia chinensis</i> , <i>Arabis nemorensis</i> , <i>Beta vulgaris</i> , <i>Brassica napus</i> , <i>Capsella rubella</i> , <i>Cephalotus follicularis</i> , <i>Eucalyptus grandis</i> , <i>Gossypium tomentosum</i> , <i>Hibiscus syriacus</i> , <i>Manihot esculenta</i> , <i>Morella rubra</i> , <i>Mucuna pruriens</i> , <i>Nelumbo nucifera</i> , <i>Parasponia andersonii</i> , <i>Populus sp.</i> , <i>Prunus dulcis</i> , <i>Prunus persica</i> , <i>Salvia splendens</i> , <i>Syzygium oleosum</i> , <i>Vitis vinifera</i> Species of your interest not listed? <a href="#">Contact us</a>
<b>Not reactive in</b>	No confirmed exceptions from predicted reactivity are currently known
<b>Selected references</b>	<a href="#">Penzler et al. (2022)</a> Commonalities and specialties in photosynthetic functions of PROTON GRADIENT REGULATION5 variants in Arabidopsis. <i>Plant Physiol.</i> 2022;190(3):1866-1882. doi:10.1093/plphys/kiac362 <a href="#">Wang et al. (2022)</a> , Arabidopsis Ubiquitin-Conjugating Enzymes UBC4, UBC5, and UBC6 Have Major Functions in Sugar Metabolism and Leaf Senescence, <i>Int. J. Mol. Sci.</i> 2022, 23(19), 11143; <a href="https://doi.org/10.3390/ijms231911143">https://doi.org/10.3390/ijms231911143</a> <a href="#">Lim et al (2022)</a> . Arabidopsis guard cell chloroplasts import cytosolic ATP for starch turnover and stomatal opening. <i>Nat Commun.</i> 2022 Feb 3;13(1):652. doi: 10.1038/s41467-022-28263-2. PMID: 35115512; PMCID: PMC8814037.

**application example**

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 µm), 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 reconstituted antibody solution at 1 µg IgG/µl) in PBS-T for ON at 4°C with agitation.

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

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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