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Product no AS22 4708

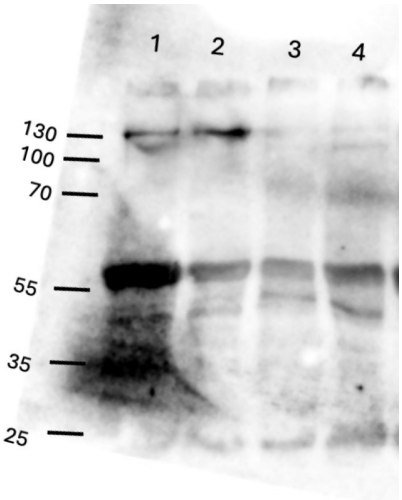
Anti-GLU1 | Ferredoxin-dependent glutamate synthase 1, chloroplastic/mitochondrial

Product information

Immunogen	KLH-conjugated peptide derived from *Arabidopsis thaliana* GLU1 protein sequence, UniProt: Q9ZNZ7, TAIR: At5g04140
Host	Rabbit
Clonality	Polyclonal
Purity	Antigen affinity purified serum, in PBS pH 7.4
Format	Lyophilized
Quantity	50 µg
Reconstitution	For reconstitution, add 50 µl of sterile or deionized 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.

Application information

Recommended dilution	1 : 1000 (WB)
Expected | apparent MW	176.75 | 130 kDa (due to N-terminal or C-terminal processing)
Confirmed reactivity	*Arabidopsis thaliana*
Predicted reactivity	*Physcomitrium patens, Synechocystis* sp. Species of your interest not listed? Contact us
Not reactive in	*Euglena gracilis, Lemna minor*
Selected references	To be added when available, antibody available in February 2026.



Samples:
1- 20 µg of *Arabidopsis thaliana* whole leaf extract; col-0 (wildtype)
2- 20 µg of *Arabidopsis thaliana* whole leaf extract; col-0 (wildtype)
3- 20 µg of *Arabidopsis thaliana* whole leaf extract; fd-gogat1/glu1/orb1: SALK_011035C
4- 20 µg of *Arabidopsis thaliana* whole leaf extract; fd-gogat1/glu1/orb1: SALK_011035C

Mark: MW markers; PageRuler Prestained Protein Ladder, Thermo Fisher Cat. #26616

20 ug/well of total protein extracted freshly from *Arabidopsis thaliana* leaf tissue. Extract buffer components were: 100mM MOPS buffer pH 7.6, 100 mM NaCl, 5% SDS, 0.5% Beta-ME, 10% Glycerin and denatured with exact buffer components at 65 for 3 minutes. Samples were separated on 10% SDS-PAGE and blotted for 30 minutes to PVDF (pore size of 0.45 µm), using semi-dry transfer at room temperature (Bio-Rad Trans-Blot Turbo Transfer system). Blot was blocked with 6% BSA for 2 h/RT with agitation (25 rpm). Blot was incubated in the primary antibody

at a dilution of 1: 1000 overnight at 4 with agitation (25 rpm). The antibody solution was decanted, and the blot was rinsed briefly, then washed once for 15 min and 2 times for 5 min in TBST at room temperature with agitation ON (25 rpm). Blot was incubated in matching secondary antibody (HRP Goat Anti-Rabbit IgG) diluted to 1: 3000 for 1 h/RT with agitation (25 rpm). The blot was washed as above and developed with a following chemiluminescent detection reagent: SuperSignal West Pico PLUS Chemiluminescent Substrate, Thermo Scientific. Exposure time was 30 seconds.

Note: Blocking with 5 % 1h/RT nonfat milk may decrease background signal.

Courtesy of Dr. Jake Brunkard, University of Wisconsin-Madison, USA