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Product no AS12 1853

Anti-CGL160 | Conserved in green lineage 160

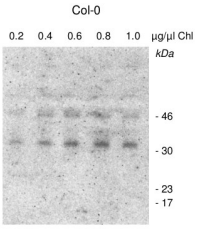
Product information

Immunogen	part of *Arabidopsis thaliana* recombinant CGL160 derived from a following sequence UniProt: Q82279, TAIR: At2g31040
Host	Rabbit
Clonality	Polyclonal
Purity	Serum
Format	Lyophilized
Quantity	50 µl
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 : 5000 (WB)
Expected | apparent MW	38,6 | 34 kDa (without transit peptide)
Confirmed reactivity	*Arabidopsis thaliana*
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Selected references	Galvis et al. (2020). H+ transport by K+ EXCHANGE ANTIPORTER3 promotes photosynthesis and growth in chloroplast ATP synthase mutants. Plant Physiol. pp.01561.2019. doi: 10.1104/pp.19.01561. Fristedt et al. (2015). The Thylakoid Membrane Protein CGL160 Supports CF1CF0 ATP Synthase Accumulation in Arabidopsis thaliana. PLoS One. 2015 Apr 2;10(4):e0121658. doi: 10.1371/journal.pone.0121658.

application example



Respective amounts of µg/ul of chlorophyll from *Arabidopsis thaliana* leaf extracted with sample buffer (2% SDS, 8% sucrose, 0.2mM EDTA, 10mM Tris HCl (pH 6.8) 4% beta-mercaptoethanol) were separated on 15 % SDS-PAGE and blotted 1h to PVDF. Blots were blocked with 10 % milk for 1h at room temperature (RT) with agitation. Blot was incubated in the primary antibody at a dilution of 1: 4 000 overnight at 4°C with agitation. The antibody solution was decanted and the blot was rinsed briefly twice, then washed once for 15 min and 3 times for 5 min in TBS-T at RT with agitation. Blot was incubated in secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated) diluted to 1:20 000 in for 1h at RT with agitation. The blot was washed as above and developed for 5 min with ECL according to the manufacturer's instructions. Exposure time was 60 seconds.
Cross-reactivity at around 50 kDa is determined to be CF_1 alpha or beta.

Courtesy of Dr. Rikard Fristedt, Biophysics of Photosynthesis, Dep. Physics and Astronomy, Faculty of Sciences. VU University of Amsterdam, The Netherlands