

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

contact: support@agrisera.com

Agrisera AB | Box 57 | SE-91121 Vännäs | Sweden | +46 (0)935 33 000 | www.agrisera.com

Product no AS10 721

Anti-PHOT2 | Phototropin-2

Product information

Immunogen KLH-conjugated synthetic peptide derived from known Arabidopsis thaliana PHOT2 P93025, At5g58140

Host Rabbit

Clonality Polyclonal

Purity Serum

Format Lyophilized

Quantity 50 μl

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.

Additional information This product can be sold containing ProClin if requested

Application information

Recommended dilution 1:10 000 (WB)

Expected | apparent 102 | 110 kDa

Predicted reactivity | Arabidopsis thaliana

Not reactive in Oryza sativa

Additional information

Recommended extraction protocol Sakamoto and Briggs 2002

Antibody incubation buffer: PBS with 0.05 % Tween20.

Selected references

Łabuz et al. (2024). Phototropin2 3'UTR overlaps with the AT5G58150 gene encoding an inactive RLK kinase. BMC Plant Biol. 2024 Jan 18;24(1):55.

Łabuz et al. (2021) Phototropin interactions with SUMO proteins. Plant Cell Physiol. 2021 Feb 17:pcab027. doi: 10.1093/pcp/pcab027. Epub ahead of print. PMID: 33594440.

Krzeszowiec et al. (2020). Chloroplasts in C3 grasses move in response to blue-light. Plant Cell Rep . 2020 Oct;39(10):1331-1343.doi: 10.1007/s00299-020-02567-3. Epub 2020 Jul 13.

Labuz et al. (2015). The impact of temperature on blue light induced chloroplast movements in Arabidopsis thaliana. Plant Science, doi:10.1016/j.plantsci.2015.07.013.

Aggarwal et al. (2014). Blue-light-activated phototropin2 trafficking from the cytoplasm to Golgi/post-Golgi vesicles. J Exp Bot. 2014 May 12.

application example

80 µg of total protein from Arabidopsis thaliana wt Columbia (right lane) and Arabidopsis thaliana phot1phot2 double mutant (left lane) were separated on 9% SDS-PAGE and blotted 2h to PVDF. Blots were blocked immediately following transfer in PBS-T 5% milk for 1h at room temperature with agitation. Blots were incubated in the primary antibody at a dilution of 1: 10 000 overnight at 4°C with agitation. The antibody solution was decanted and the blot was rinsed briefly, then washed 3 times for 5 min in PBS-T at room temperature with agitation. Blots were incubated in secondary antibody (goat anti- rabbit IgG horse radish peroxidase conjugated, from Agrisera AS09 602) diluted to 1:10 000 for 1h at room temperature with agitation. The blots were washed as above and developed with WestPico detection reagent (PIERCE) according to the manufacturers instructions. Exposure time was 300 seconds.

