

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

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## Product no AS07 257

## Anti-PRK ribulose-5-P-kinase | Phosphoribulokinase

## **Product information**

Immunogen KLH-conjugated peptide derived from known PRK sequences including Arabidopsis thaliana UniProt: P25697, TAIR:

**Host** Rabbit

Clonality Polyclonal

**Purity** Immunogen affinity purified serum in PBS pH 7.4.

Format Lyophilized

Quantity 50 ug

**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 Storage 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 Antibody can be used as a marker of chloroplast stroma

## **Application information**

Recommended dilution 1:1000 (WB)

Expected | apparent

44 | 39 kDa (A. thaliana)

Confirmed reactivity

Arabidopsis thaliana, Chlamydomonas reinhardtii, Hordeum vulgare, Synechocystis sp. PCC6803, Synechococcus PCC 7942, Thalassiosira pseudonana, Oryza sativa, Zea mays

Predicted reactivity

Cyanidioschyzon merolae, Glycine max, Hordeum vulgare, Lactuca sativa, Malus domestica, Micromonas sp., Ostreocossus tauri, Physcomitrium patens, Populus trichocarpa, Spinacia oleracea, Solanum tuberosum, Sorghum bicolor, Synechocystis PCC 6803, Synechococcus elongatus, Zea mays, Vitis vinifera

Species of your interest not listed? Contact us

Not reactive in

Proteobacteria

Additional information Antibody detects PRK using a load from 4-20 μg/well of a chloroplast fraction, incubation over night at 4°C

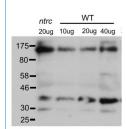
Selected references

Fukayama et al. (2018). Expression level of Rubisco activase negatively correlates with Rubisco content in transgenic rice. Photosynth Res. 2018 May 30. doi: 10.1007/s11120-018-0525-9.

Pérez-Ruiz et al. (2017). NTRC-dependent redox balance of 2-Cys peroxiredoxins is needed for optimal function of the photosynthetic apparatus. Proc Natl Acad Sci U S A. 2017 Nov 7;114(45):12069-12074. doi: 10.1073/pnas.1706003114.

Rai et al. (2017). Real-time iTRAQ-based proteome profiling revealed the central metabolism involved in nitrogen starvation induced lipid accumulation in microalgae. Sci Rep. 2017 Apr 5;7:45732. doi: 10.1038/srep45732. (microalga,

Nikkanen et al. (2016). Crosstalk between chloroplast thioredoxin systems in regulation of photosynthesis. Plant Cell Environ. 2016 Aug;39(8):1691-705. doi: 10.1111/pce.12718.



WT-Col-0 Arabidopsis thaliana leaves were frozen in liquid nitrogen and soluble proteins were extracted in a buffer containing 50 mM HEPES, 5 mM NaCl and 10 mM MgCl2. 10 μg, 20 or 40 ug of eparated in SDS-PAGE (15% acrylamide with 6M urea) and blotted 1h to a PVDF membrane using Höefer semi-dry blotter. Blot was blocked with 4 % milk in TTBS for 1h at room temperature (RT) with agitation. Blot was incubated in the primary antibody at a dilution of 1:1 000 overnight in +4°C. The antibody solution was decanted and the blot was washed 3 x 5 min with TTBS at RT with agitation. Blot was incubated in secondary antibody (anti-rabbit lgG horse radish peroxidase conjugated, from Agrisera, AS09 602) diluted



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to 1:20 000 in 1% milk/TTBS for 2h at RT with agitation. The blot was washed 3x5 min in TTBS and 1x5 min in TBS at RT with agitation and developed for 5 min with chemiluminescent detection reagent, according to the manufacturer's instructions.

Courtesy of Lauri Nikkanen, University of Turku, Finland