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Product no AS15 3080

STT7 | Serine/threonine-protein kinase STT7 (chloroplastic)

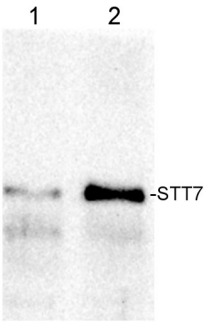
Product information

Immunogen	Recombinant STT7 of *Chlamydomonas reinhardtii,* overexpressed in *E.coli,* UniProt: Q84V18
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 : 1000-1 : 2 500 (WB)
Expected | apparent MW	80,7 | 80 kDa
Confirmed reactivity	*Chlamydomonas reinhardtii*
Predicted reactivity	*Chlamydomonas reinhardtii*
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Selected references	Cazzaniga et al. (2019). Photosystem II antenna complexes CP26 and CP29 are essential for nonâ? photochemical quenching in Chlamydomonas reinhardtii. doi: 10.1111/pce.13680. Upadhyaya and Jagadeeshwar Rao (2019). Reciprocal regulation of photosynthesis and mitochondrial respiration by TOR kinase in Chlamydomonas reinhardtii. Plant Direct Volume 3, Issue 11. Lameille et al. (2009). Analysis of the chloroplast protein kinase Stt7 during state transitions. PLoS Biol. 2009 Mar 3;7(3):e45. doi: 10.1371/journal.pbio.1000045.

Application example



Total cells of *Chlamydomonas reinhardtii* were kept under state I (no expression of LHCII kinase, line 1) and state II (expression of LHCII kinase, line 2). 2 µg of chlorophyll content were solubilised in buffer containing 120 mM Tris (6.8) 4% SDS, 20% glycerol and 1 mM DTT and denatured with at 100°C for 1 min (Takahashi et al., 2013) were separated on 12 % SDS-PAGE and blotted 20 min to nitrocellulose using semi-dry transfer. Blot was blocked with 4% milk RT/2h with agitation. Blot was incubated in the primary antibody at a dilution of 1: 3000 for TBS-T ON/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 Agrisera matching secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated, AS09 602) diluted to 1:25 000 in for 1h/RT with agitation. The blot was washed as above and developed for 30 sec with ECL. Exposure time was 30 to 60 seconds. The molecular weight of the identified band is approx. 80 KD.

Courtesy Dr. Sai Kiran, University of Hyderbad, India