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Product no AS12 2634

DRP5B | Dynamin related protein 5B

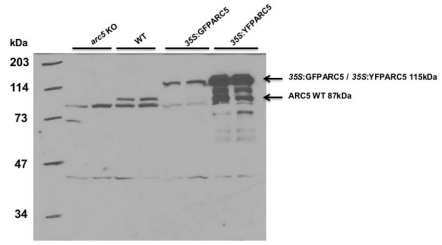
Product information

Immunogen	KLH-conjugated synthetic peptide derived from *Arabidopsis thaliana* DRP5B sequence UniProt: Q84N64, TAIR: AT3G19720
Host	Rabbit
Clonality	Polyclonal
Purity	Immunogen affinity purified serum in PBS pH 7.4.
Format	Lyophilized
Quantity	50 µg
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	87,17 kDa
Confirmed reactivity	*Arabidopsis thaliana, Triticum aestivum*
Predicted reactivity	*Glycne max, Manihot esculenta, Mesostigma viride, Oryza sativa, Physcomitrium patens, Sorghum bicolor, Zea mays, Vitis vinifera* Species of your interest not listed? Contact us
Not reactive in	*Chlamydomonas reinhardtii*
Additional information	Chemiluminescent extreme low femtogram detection range reagent is recommended to use with this antibody.
Selected references	Loudya et al. (2021) Cellular and transcriptomic analyses reveal two-staged chloroplast biogenesis underpinning photosynthesis build-up in the wheat leaf. Genome Biol. 2021 May 11;22(1):151. doi: 10.1186/s13059-021-02366-3. PMID: 33975629; PMCID: PMC8111775.

Application example



Total proteins extracted from 5 mg leaf or flower bud of *Arabidopsis thaliana* tissue with SDS-loading buffer were separated on 10% SDS-PAGE using tank transfer and blotted for 1 h to nitrocellulose membrane. Blots were blocked with 2% non-fat dry milk for 1 h at room temperature (RT) with agitation. Blot was incubated in the primary antibody (affinity-purified DRP5B) at a dilution of 1:5 000 in TBS-T + 2% non-fat dry milk overnight at RT with agitation. The antibody solution was decanted and the blot was rinsed briefly, then washed 4 times for 10 min in TBS-T at RT with agitation. Blot was incubated in secondary antibody (anti-rabbit IgG horseradish peroxidase conjugated, from Agrisera AS09 602) diluted to 1:5 000 in TBS-T + 2% non-fat dry milk for 2 hr at RT with agitation. The blot was washed as above and developed for 5 min with SuperSignal West Pico (Thermo Scientific) according to the manufacturer's instructions. Exposure time was 30 min. Additionally the same blot was washed and developed with extreme low femtogram detection range chemiluminescent reagent. Exposure time was 1 min. The latter helped to increase DRP5B detection with the affinity-purified DRP5B antibodies. The signal was not obtained from bud tissue, suggesting that expression level of DRP5B may be too low for detection (blot not included).

Courtesy of Deena Kadirjan-Kalbach and Katherine W. Osteryoung, Michigan State University, USA