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Product no AS13 2729

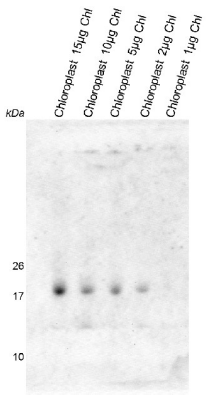
Anti-RAF2 | Rubisco accumulation factor 2

Product information

Immunogen	Recombinant, RAF2 protein choisen from *Arabidopsis thaliana* protein sequence, UniProt:Q9LU63, TAIR: AT5G51110
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 (WB)
Expected | apparent MW	18 | 17 kDa
Confirmed reactivity	*Arabidopsis thaliana*
Predicted reactivity	*Arabidopsis alpina, Brassica napus, Capsella rubella, Glycine soja, Gpssypium aroboretum, Medicago trunculata, Morus notabilis, Ricinus communis, Theobroma cacao, Vitis vinifera* Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Selected references	Dawane et al. (2024). Polysome-bound mRNAs and translational mechanisms regulate drought tolerance in rice. Plant Physiol Biochem. 2024 Mar:208:108513. doi: 10.1016/j.plaphy.2024.108513. Fristedt et al. (2018). RAF2 is a RuBisCO assembly factor in Arabidopsis thaliana. Plant J. 2018 Apr;94(1):146-156. doi: 10.1111/tpj.13849. Aigner et al. (2017). Plant RuBisCo assembly in E. coli with five chloroplast chaperones including BSD2. Science. 2017 Dec 8;358(6368):1272-1278. doi: 10.1126/science.aap9221.



1-15µg of chlorophyll from isolated chloroplasts from *Arabidopsis thaliana*, extracted with a buffer containing (25 mM Tricine-NaOH, pH 7.8, 330 mM sorbitol, 1 mM EDTA, 10 mM KCl, 0.15% [w/v] bovine serum albumin, 4 mM sodium ascorbate, and 7 mM L-Cys) were separated on 12 % SDS-PAGE and blotted 1h to PVDF using semi-dry transfer. 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: 1 000 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, from Agrisera, AS09 602) diluted to 1:10 000 in TBS-T for 1h at RT with agitation. The blot was washed as above and developed for 60 seconds with a ImageQuant system from GE Healthcare, exposure time was 60 seconds.

Courtesy of Dr. Rikard Fristedt, University of Amsterdam, The Netherlands