

product **AS13 2729**

RAF2 | Rubisco accumulation factor 2

product information

Background	RAF2 (Rubisco accumulation factor 2) is a member of PCD family and a chloroplastic protein which contains a pterin carbinolamine dehydratase domain. Protein is involved in tetrahydrobiopterin biosynthetic process. Alternative names: AT5g51110/MWD22_5, PCD/DCoH-like protein 1, Transcriptional coactivator/pterin dehydrataseImported.
Immunogen	Recombinant, RAF2 protein 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 tubes briefly prior to opening them to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tubes.
Tested applications	Western blot (WB)
Related products	AS03 037 anti-RbcL, Rubisco large subunit, form I and form II (100 µl) AS03 037-200 anti-RbcL, Rubisco large subunit, form I and form II, larger pack size (200 µl) of AS03 037, rabbit antibody AS03 037-HRP anti-RbcL, Rubisco large subunit, form I and form II. HRP conjugated AS03 037PRE Rubisco large subunit, pre-immune serum AS09 409 Rubisco quantitation kit AS01 017 anti-RbcL Rubisco large subunit, form I, chicken antibody AS07 218 anti-Rubisco 557 kDa hexadecamer, rabbit antibody to a whole protein AS01 017S anti-RbcL Rubisco protein standard for quantitative western blot or positive control AS07 259 anti-RbcS Rubisco small subunit (SSU), rabbit antibody AS07 222 RbcS Rubisco small subunit (SSU) from pea, rabbit antibody matching Agrisera secondary antibody collection of antibodies to chloroplastic proteins Plant and algal protein extraction buffer Secondary antibodies

Application information

Recommended dilution	1 : 1000 (WB)
Expected apparent MW	18 17 kDa
Confirmed reactivity	<i>Arabidopsis thaliana</i>
Predicted reactivity	<i>Arabidopsis alpina</i> , <i>Brassica napus</i> , <i>Capsella rubella</i> , <i>Glycine soja</i> , <i>Gpssypium aroboretum</i> , <i>Medicago trunculata</i> , <i>Morus notabilis</i> , <i>Ricinus communis</i> , <i>Theobroma cacao</i> , <i>Vitis vinifera</i>
Not reactive in	No confirmed exceptions from predicted reactivity are currently known.
Selected references	Fristedt et al. (2018) . RAF2 is a RuBisCO assembly factor in <i>Arabidopsis thaliana</i> . <i>Plant J.</i> 2018 Apr;94(1):146-156. doi: 10.1111/tpj.13849.

Agrisera

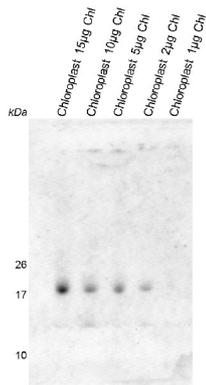
This product is **for research use only** (not for diagnostic or therapeutic use)

contact: support@agrisera.com

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

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.

application example



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