**Background** RAF2 (Rubisco accumulation factor 2) is a member of the PCD family and a chloroplast protein containing pterin carbinolamine dehydratase domain. Protein is involved in tetrahydrobiopterin biosynthetic process. Alternative names: AT5g51110/MWD22_5, PCD/DcoH-like protein 1, Transcriptional coactivator/pterin dehydratase imported.

**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

**Secondary antibodies**
- matching Agrisera secondary antibody
- collection of antibodies to chloroplastic proteins
- Plant and algal protein extraction buffer

**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, Gossypium arboresum, Medicago trunculata, Morus notabilis, Ricinus communis, Theobroma cacao, Vitis vinifera

**Not reactive in** No confirmed exceptions from predicted reactivity are currently known.

**Additional information**
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