Product AS15 2833
PAB | protein in chloroplast ATPase biogenesis

Product information

**Background**
PAB (protein in chloroplast ATPase biogenesis) acts as an assembly chaperone that functions downstream of chaperonin 60 in the assembly of chloroplast ATP synthase coupling factor 1.

**Immunogen**
Recombinant PAB from *Zea mays*, GRMZM2G110258

**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**
- Antibodies to ATP synthase
- Plant and algal protein extraction buffer
- Secondary antibodies

Application information

**Recommended dilution**
1 : 1000 (WB)

**Expected | apparent MW**
35 kDa (without transit peptide)

**Confirmed reactivity**
*Arabidopsis thaliana, Zea mays*

**Predicted reactivity**
*Brachypodium distachyon, Gossypium raimondii, Hordeum vulgare, Oryza sp., Saccharum hybrid cultivar R570, Setaria italica, Sorghum bicolor, Theobroma cacao, Triticum aestivum*

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

**Additional information**

**Selected references**
To be added when available, antibody released in June 2015
Lanes contain ~5 µg of total protein from Zea mays seedling leaves (upper image), Arabidopsis thaliana seedling leaves (lower image), or isolated chloroplast stroma. Leaf extract from homozygous pab mutants (hypomorphic alleles), and purified recombinant antigen were analyzed as controls. Proteins were separated on 12% SDS-PAGE and blotted overnight to nitrocellulose using tank transfer. Blots were blocked for 45 min at room temperature (RT) in TBST +4% dry milk with agitation. The blot was incubated in the primary antibody at a dilution of 1:1 000 for 2h at RT with agitation. The antibody solution was decanted and the blot was rinsed twice in TBST, then washed three times for 10 min in TBST at RT with agitation. The blot was incubated in secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated, from Agrisera, AS09 602) diluted to 1:10 000 in TBST +1% dry milk for 1h at RT with agitation. The blot was washed as above and incubated for ~2 minutes in ECL reagents prior to imaging with a LiCor digital imager. Exposure time was ~30 seconds.

Courtesy of Dr. Alison Barkan, The University of Oregon, USA