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**Product no AS21 4614**

# PAL 1-4 | Phenylalanine ammonia-lyase 1-4

## Product information

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|---|---|
| **Immunogen** | KLH-conjugated, conserved peptide derived from *Arabidopsis thaliana* PAL1-4, UniProt: P35510, P45724, P45725, Q9SS45 , TAIR:AT2G37040, AT3G53260, AT5G04230,AT3G10340 |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Purity** | Antigen affinity purified serum, in PBS pH 7.4 |
| **Format** | Lyophilized |
| **Quantity** | 50 µg |
| **Reconstitution** | For reconstitution add 50 µl, of sterile or deionized 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. |

## Application information

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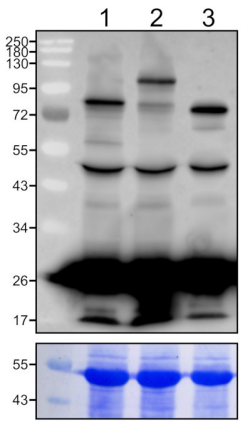
| **Recommended dilution** | 1 : 2000 (WB) |
| **Expected \| apparent MW** | 76.2-78.7 kDa |
| **Confirmed reactivity** | *Nicotiana benthamiana* |
| **Predicted reactivity** | *Arabidopsis thaliana, Hibiscus syriacus, Lotus corniculatus, Nepenthes sp., Solanum dulcamara, Solanum lycopersicum,Vigna unguiculata,*<br>Species of your interest not listed? Contact us |
| **Not reactive in** | No confirmed exceptions from predicted reactivity are currently known |
| **Selected references** | To be added when available, antibody available in April 2023. |




1- p35s::NbPAL1-3xHA
2- p35s::NbPAL1-GFP
3- RNAi*GUS*

**Target MW: ~77 kDa**

**Target cellular localisation: Cytoplasmic**

~25 µg/well of total protein extracted freshly from *N. benthamiana* leaf. Sample 3 is a control, no overexpression. Exact buffer components were: Laemmli buffer (62.5mM Tris-HCl (pH 6.8), 10% glycerol, 1%SDS, 0.005% Bromophenol Blue): and denatured with exact buffer components at 70°C for 10 min. Samples were separated on 10 % SDS-PAGE and blotted for 0.5 h to PVDF using semi-dry transfer. Blot was blocked with 5 % milk for 1h at RT with agitation. Blot was incubated in the primary antibody at a dilution of 1:2 000 in TBS-T ON/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 10 min in TBS-T at RT with agitation. Blot was incubated in matching secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated) diluted to 1: 10 000 in for 1h/RT with agitation. The blot was washed as above and developed with a following chemiluminescent detection reagent: AS16 ECL-N-10 AgriseraBright (mid picogram detection). Exposure time was 5 minutes (LI-COR Odyssey FC Imaging System).

Image courtesy of Dr Yasin Tumtas, Bozkurt Lab, Imperial College London