

Agrisera

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

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product **AS12 2615** **CHS | Chalcone synthase**

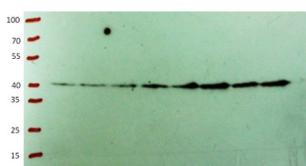
product information

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| Background | Chalcone synthase (CHS) is an essential enzyme in flavonoid biosynthesis. Required for the accumulation of purple anthocyanins in leaves and stems. Also involved in the regulation of auxin transport and the modulation of root gravitropism. Alternative names: Naringenin-chalcone synthase, Protein TRANSPARENT TESTA 4. |
| Immunogen | <u>KLH</u> -conjugated synthetic peptide derived from <i>Arabidopsis thaliana</i> CHS, UniProt: P13114 , TAIR: AT5G13930 |
| 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 | Immunolocalization (IL), Western blot (WB) |
| Related products | Plant protein extraction buffer Secondary antibodies |

Application information

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| Recommended dilution | 1 : 20-1 : 500 (IL), 1 : 1000 (WB) |
| Expected apparent MW | 43.1 kDa |
| Confirmed reactivity | <i>Arabidopsis thaliana</i> |
| Predicted reactivity | <i>Cannabis sativa</i> , <i>Brassica sp.</i> , <i>Gossypium hirsutum</i> , <i>Nicotiana tabacum</i> , <i>Oryza sativa</i> , <i>Solanum tuberosum</i> , <i>Petroselinum sp.</i> , <i>Pisum sativum</i> , <i>Triticum aestivum</i> , <i>Zea mays</i> , <i>Vitis vinifera</i> |
| Not reactive in | No confirmed exceptions from predicted reactivity are currently known. |
| Selected references | Nabbie et al. (2017) . Lambda Protein Affects Anthocyanin Production in <i>Arabidopsis thaliana</i> during Drought Stress. <i>Journal of Agricultural Science</i> ; Vol. 9, No. 7; 2017 (immunolocalization, western blot) |

application example



0.5 to 7 µg of protein from *Arabidopsis thaliana* Col0 leaf tissue, extracted with Agrisera PEB protein extraction buffer 1X were separated on 12 % SDS-PAGE using tank (BioRad system) to transfer to nitrocellulose membrane during 1 hour. Blots were blocked with BSA (Sigma) for 1h at room temperature (RT) with agitation. Blot was incubated in the primary antibody at a dilution of 1 : 1 000 for 1h at RT 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

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was incubated in secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated, from Agrisera [AS09_602](#)) diluted to 1:20 000 in for 1h at RT with agitation. The blot was washed as above and developed for 5 min with ECL according to the manufacturer's instructions. Exposure time was 20 seconds. For transference control the membrane was stained with Ponceau red and integrity of proteins was evaluated using 12% SDS-PAGE silver stained.

Courtesy of Dr. Rodrigo A. Contreras, Universidad de Santiago de Chile