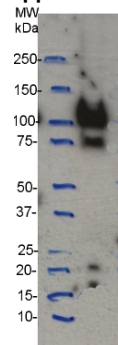


Product no **AS12 2582****Anti-CesA4 (IRX5) | Cellulose synthase A catalytic subunit 4 [UDP-forming]****Product information**

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| Immunogen | Recombinant <i>Arabidopsis thaliana</i> IRX5 fragment, UniProt: Q84JA6 , TAIR: At5g44030 |
| 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 the tubes briefly prior to opening them to avoid any losses that might occur from material adhering to the cap or sides of the tube. |
| Additional information | This antibody is detecting both, recombinant and endogenous CesA4 (IRX5) protein |

Application information

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| Recommended dilution | 1 : 1000 (WB) |
| Expected apparent MW | 119.5 kDa |
| Confirmed reactivity | <i>Arabidopsis thaliana</i> , <i>Solanum lycopersicum</i> , <i>Solanum tuberosum</i> |
| Predicted reactivity | <i>Betula luminifera</i> , <i>Brassica napus</i> , <i>Capsella rubella</i> , <i>Eutrema salsugineum</i> , <i>Gossypium hirsutum</i> , <i>Nelumbo nucifera</i> , <i>Noccaea caerulea</i> , <i>Vitis vinifera</i> |
| | Species of your interest not listed? Contact us |
| Not reactive in | <i>Oryza sativa</i> , <i>Populus tremula</i> |
| Selected references | Otulak-Koziet et al. (2018). Plant Cell Wall Dynamics in Compatible and Incompatible Potato Response to Infection Caused by Potato Virus Y (PVYNTN). Int J Mol Sci. 2018 Mar 15;19(3). pii: E862. doi: 10.3390/ijms19030862. Tsuchiya et al. (2015). Distribution of XTH, expansin, and secondary-wall-related CesA in floral and fruit abscission zones during fruit development in tomato (<i>Solanum lycopersicum</i>). Front Plant Sci. 2015 May 15;6:323. doi: 10.3389/fpls.2015.00323. |

Application example

500 mg of Col-0 WT *Arabidopsis thaliana* stem powder extracted by boiling in 2 mL of 3% SDS loading buffer + 100 mM DTT at 95°C for 10 min. Extract was spun at max speed to remove debris and supernatant was taken as crude extract. 25 µL of this was loaded on a 4-15% gel run for 50 min, 150V. . Blots were blocked with 5 % milk for 1h at room temperature (RT) with agitation. Blot was incubated in the primary antibody at a dilution of 1: 500 over night 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, AS09 602 from Agrisera) diluted to 1:5000 in for 2h at RT with agitation. The blot was washed as above and developed for 5 min with high sensitivity chemiluminescent detection reagent according to the manufacturer's instructions. Exposure time was 10 seconds.

Courtesy of Dr. Manoj Kumar, University of Manchester, UK

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