

Anti-Nitrilase 1, C-terminal antibody

Catalog: PHY2194S

Product Information

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| Description: | Rabbit polyclonal antibody |
| Background: | NIT1 catalyzes the terminal activation step in indole-acetic acid biosynthesis. Aggregation of NIT1 in cells directly abutting wound sites is one of the earliest events associated with wound and herbicide-induced cell death. It is also involved in the conversion of IAN to IAM (indole-3-acetamide) and other non-auxin-related metabolic processes. |
| Synonyms: | NIT1, A. THALIANA NITRILASE 1, ATNIT1, NITI, NITRILASE 1 |
| Immunogen: | KLH-conjugated synthetic peptide (20 aa from C terminal section) derived from <i>Arabidopsis thaliana</i> NIT1 (AT3G44310). |
| Form: | Lyophilized |
| Quantity: | 150 µg |
| Purification: | Serum Peptide affinity form antibody available upon request at info@phytoab.com . |
| Reconstitution: | Reconstitution with 150 µl of sterile water. "Note: please spin tube briefly prior to opening it to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tube". |
| Stability & Storage: | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 6 months, -20 to -70°C under sterile conditions after reconstitution. 1 month, 2 to 8°C under sterile conditions after reconstitution. |
| Shipping: | The product is shipped at 4°C. Upon receipt, store it immediately at the temperature recommended above. |

Application Information

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| Recommended Dilution: | Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user. |
| Expected / apparent MW: | 38 / 35 kDa |
| Confirmed Reactivity: | <i>Arabidopsis thaliana</i> |

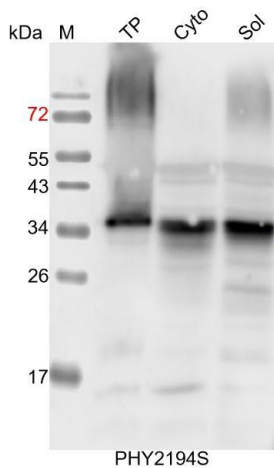
Research Use Only

Predicted Reactivity:

Among species analyzed, the sequence of the synthetic peptide used for immunization is 80-99% homologues with the sequence in *Brassica napus*, *Brassica rapa*, *Vitis vinifera*, *Physcomitrium patens*. The sequence of the synthetic peptide used for immunization is 80% (17 / 20) homologues with the sequence in NIT3 (AT3G44320) and NIT4 (AT5G22300). For more species homologues information, please contact tech support at tech@phytoab.com.

Application Example

Example1:



TP: 30 µg total protein from *Arabidopsis thaliana*.
 Cyto: 10 µg cytosolic protein from *Arabidopsis thaliana*.
 Sol: 30 µg soluble protein from *Arabidopsis thaliana*.

Electrophoresis: 15% SDS-PAGE

Transfer: blotting to NC (nitrocellulose) membrane for 1 h.

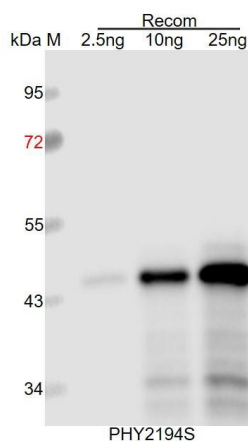
Blocking: 5% skim milk at RT or 4°C for 1 h.

Primary antibody: 1:1000 dilution overnight at 4°C.

Secondary antibody: 1:10000 dilution using Goat Anti-Rabbit IgG H&L (HRP) (Cat# PHY6000)

Detection: using chemiluminescence substrate and image were captured with CCD camera.

Example2:



Recom: 2.5 ng, 10 ng and 25 ng recombinant protein containing the peptide for immunization and having a molecular mass of 45 kDa.

Electrophoresis: 12% SDS-PAGE

Transfer: blotting to NC (nitrocellulose) membrane for 1 h.

Blocking: 5% skim milk at RT or 4°C for 1 h.

Primary antibody: 1:1000 dilution overnight at 4°C.

Secondary antibody: 1:10000 dilution using Goat Anti-Rabbit IgG H&L (HRP) (Cat# PHY6000).

Detection: using chemiluminescence substrate and image were captured with CCD camera.