

Anti-Protein argonaute 4 antibody

Catalog: PHY3612A

Product Information

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| Description: | Rabbit polyclonal antibody |
| Background: | AGO4 is a member of a class of PAZ/PIWI domain containing proteins involved in siRNA mediated gene silencing. Loss of function mutations have reduced site specific CpNpG and CpHpH methylation, abnormal ovule/megagametophyte development and increased susceptibility to bacterial pathogens including Tobacco rattle virus. |
| Synonyms: | AGO4, ARGONAUTE 4, OCP11, OVEREXPRESSOR OF CATIONIC PEROXIDASE 11 |
| Immunogen: | KLH-conjugated synthetic peptide (14 aa from Central section) derived from <i>Arabidopsis thaliana</i> AGO4 (AT2G27040). |
| Form: | Lyophilized |
| Quantity: | 150 µg |
| Purification: | Immunogen affinity purified |
| Reconstitution: | Reconstitution with 150 µl of sterile 1XPBS (PH=7.4). "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

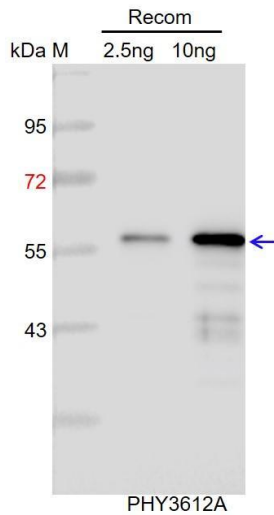
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| Recommended Dilution: | Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user. |
| Expected / apparent MW: | 103 kDa |
| Predicted Reactivity: | Among species analyzed, the sequence of the synthetic peptide used for immunization is 80-99% homologues with the sequence |

Research Use Only

in *Gossypium raimondii*, *Vitis vinifera*, *Glycine max*, *Cucumis sativus*,
Medicago truncatula, *Solanum lycopersicum*, *Nicotiana tabacum*,
Solanum tuberosum, *Populus trichocarpa*.

For more species homologues information, please contact tech support at tech@phytoab.com.

Application Example



Recom: 2.5 ng, 10 ng recombinant protein containing the peptide for immunization and having a molecular mass of 55 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.