# Anti-Protein TIC55, chloroplastic antibody

**Catalog:** PHY1251

## Product Information

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| **Description:** | Rabbit polyclonal antibody |
| **Background:** | The Tic55 (Translocon at the inner envelope membrane of chloroplasts, 55 kDa) protein was identified in pea as a putative regulator, possibly linking chloroplast protein import to the redox state of the photosynthetic machinery. Two Tic55 homologs have been proposed to exist in Arabidopsis: atTic55-II (AT2G24820) and AtPTC52 (AT4G25650) (Protochlorophyllide-dependent Translocon Component, 52 kDa; has also been called atTic55-IV). |
| **Synonyms:** | TIC55, ATTIC55, TIC55-II, TRANSLOCON AT THE INNER ENVELOPE MEMBRANE OF CHLOROPLASTS 55, TRANSLOCON AT THE INNER ENVELOPE MEMBRANE OF CHLOROPLASTS 55-II. |
| **Immunogen:** | Recombinant protein of TIC55 (50-420 aa) derived from *Arabidopsis thaliana* AT2G24820. |
| **Form:** | Lyophilized |
| **Quantity:** | 150 µg |
| **Purification:** | Protein A purified |
| **Reconstitution:** | Reconstitution with 150 µl of 0.01 M sterile PBS.<br>"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.<br>12 months from date of receipt, -20 to -70℃ as supplied.<br>6 months, -20 to -70℃ under sterile conditions after reconstitution.<br>1 month, 2 to 8℃ under sterile conditions after reconstitution. |
| **Shipping:** | The product is shipped at 4℃. Upon receipt, store it immediately at the temperature recommended above. |

## Application Information

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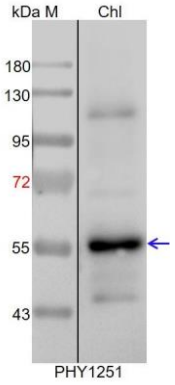
| **Recommended Dilution:** | Western Blot (1:1000-1:2000)<br>Note: Optimal dilutions/concentrations should be determined by the end user. |
| **Expected / apparent MW:** | 61 / 55 kDa |

**Confirmed Reactivity:** *Arabidopsis thaliana*

**Predicted Reactivity:** For more species homologues information, please contact tech support at tech@phytoab.com.

## Application Example




Chl: 80 μg total chloroplast protein from *Arabidopsis thaliana*.

**Electrophoresis:** 12% SDS-PAGE

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

**Blocking:** 5% skim milk at RT or 4℃ for 1 h.

**Primary antibody:** 1:2000 dilution overnight at 4℃.

**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.