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TIC214 (C) Antibody, Rabbit Polyclonal

Cat#: R3135-2

Lot#: Refer to vial

Quantity: 100 ul

Application: WB

Predicted I Observed M.W.: 214 kDa

Uniprot ID: P56785

Background:

Chloroplasts require protein translocons at the outer and inner envelope membranes (named as TOC and TIC, respectively) to import thousands of cytoplasmically synthesized preproteins. TIC214 is a 214kD protein encoded by the previously enigmatic chloroplast gene ycf1 (hypothetical chloroplast open reading frame 1). Tic214 is predicted to contain six N-terminal transmembrane domains. Recent studies suggest that Tic214 is an essential component of the protein translocon at the chloroplast inner envelope membrane (Kikuchi et al., 2013, Science, 339, 571-574).

Other Names:

YCF1.2, Putative membrane protein ycf1, ycf1-B, TRANSLOCON AT THE INNER ENVELOPE MEMBRANE OF CHLOROPLASTS 214

Source and Purity:

Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the C-terminal region of *arabidopsis thaliana* TIC214 (AtCg01130). Antibodies were purified by affinity purification using immunogen.

Storage Buffer and Condition:

Supplied in 1 x PBS (pH 7.4), 100 ug/ml BSA, 40% Glycerol, 0.01% NaN_3. Store at -20 °C. Stable for 6 months from date of receipt.

Species Specificity:

Arabidopsis thaliana

Tested Applications:

WB: 1:1,000-1:3,000 (detect endogenous protein*)

*: The apparent protein size on WB may be different from the calculated M.W. due to modifications.

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Product Data:

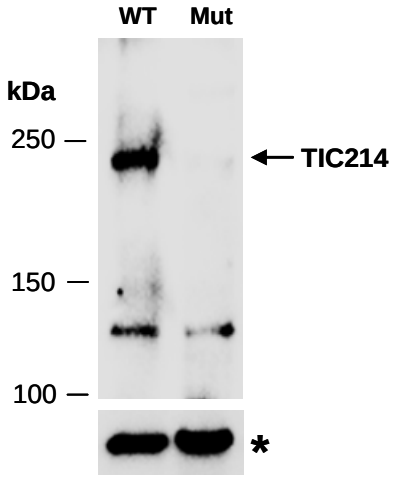

Fig 1. *Western blot of equal amounts of protein extracts from WT or TIC214 deficient mutant (Mut) arabidopsis; using anti-TIC214 (C) (R3135-2) at RT for 2 h. * indicates a non-specific protein serving as a loading control.*