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(818)-707-0392 (Fax)
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AGO2 (N) Antibody, Rabbit Polyclonal

Cat#: R3415-1

Quantity: 100 ul

Predicted | Observed M.W.: 113 kDa

Lot#: Refer to vial

Application: WB

Uniprot ID: Q9SHF3

Background:

AGO2 is involved in RNA-mediated post-transcriptional gene silencing (PTGS). AGO2 is a main component of the RNA-induced silencing complex (RISC) that binds to a short guide RNA such as microRNA (miRNA) or small interfering RNA (siRNA). RISC uses the mature miRNA or siRNA as a guide for slicer-directed cleavage of homologous mRNAs to repress gene expression. AGO2 associates mainly with siRNAs of 21 nucleotide in length and preferentially recruits small RNAs with a 5' terminal adenosine. AGO2 is probably involved in antiviral RNA silencing. AGO2 is targeted by turnip yellows virus (TuYV) protein P0 (via F-box-like domain) for probable proteasome degradation and thereby inactivating AGO2 function in RNA silencing. AGO2 is required to direct NERD-dependent DNA methylation and silencing.

Other Names:

Protein argonaute 2, At1g31280

Source and Purity:

Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the N-terminal region of *arabidopsis thaliana* AGO2 (AT1G31280). 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% NaN₃. Store at -20 °C. Stable for 6 months from date of receipt.

Species Specificity:

Arabidopsis thaliana

Tested Applications:

WB: 1:500-1:2,000 (detect endogenous protein*)

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

Product Data:

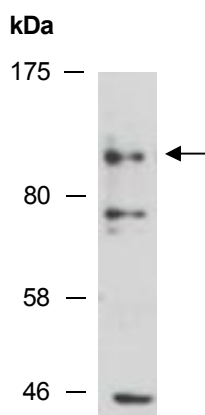


Fig 1. Western blot analysis of total protein extracts from wild type arabidopsis leaves, using anti-AGO2 (N) (R3415-1) at RT for 2 h.