

product **AS10 673**
AGO9 | argonaute 9

product information

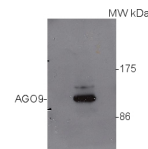
background	AGO9 belongs to a group of argonaute proteins which are catalytic component of the RNA-encodes silencing complex (RISC).
immunogen	<u>KLH</u> -conjugated synthetic peptide derived from <i>Arabidopsis thaliana</i> AGO9 protein sequence <u>Q84YI4</u>
antibody format	rabbit polyclonal affinity purified serum, in PBS pH 7.4 lyophilized
quantity	100 µg for reconstitution add 100 µl of sterile water.
storage	store lyophilized/reconstituted at -20°C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tubes.
tested applications	western blot (WB), immunoprecipitation (IP)
additional information	to be added when available

application information

recommended dilution	1: 10 000 (WB), 5 µg of antibody per 1 gram of a fresh tissue (IP)
expected apparent MW	101 kDa
confirmed reactivity	<i>Arabidopsis thaliana</i>
predicted reactivity	<i>Arabidopsis thaliana</i>
not reactive in	no confirmed exceptions from predicted reactivity known in the moment
additional information	AGO expression may be tissue specific and using floral tissue is recommended where most of the AGOs are expressed the highest. Use of proteasome inhibitors as MG132 can help to stabilize AGO proteins during extraction procedure.
selected references	<u>Havecker</u> et al. (2010) The RNA-directed DNA methylation <i>Arabidopsis</i> Argonautes functionally diverge based on expression and interaction with target loci. <i>Plant Cell</i> 22(2): 321-34.

application example

80 µg of *Arabidopsis thaliana* soluble total cell extract (extracted in 20 mM Tris pH7.5, 5mM MgCl₂, 2.5mM DTT, 300mM NaCl, 0.1% NP-40, 1% proteaseinhibitor) was separated on 6% SDS-PAGE and blotted 1h to **nitrocellulose**. Filters were blocked 1h with 5% low-fat milk powder in TBS-TT (0.25% TWEEN20; 0.1% Triton-X) and probed with anti-AGO9 antibody (1:10 000, 1h) and secondary anti-rabbit antibody (HRP conjugated, Agrisera [AS09 602](#)) (1:15 000, 1 h) in TBS-TT containing 5% low fat milk powder. Antibody incubations were followed by washings in TBS-TT. All steps were performed at RT with agitation. Blots were developed for 5 min with ECL-PLUS detection reagent according the manufacturer's instructions (GE Healthcare). Exposure time was 30 seconds.



Courtesy Dr. Ericka Havecker, University of Cambridge