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Product no AS10 673

Anti-AGO9 | Argonaute 9

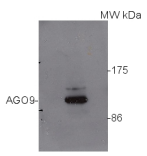
Product information

Immunogen	KLH-conjugated synthetic peptide derived from *Arabidopsis thaliana* AGO9 protein sequence UniProt: Q84YI4, TAIR:At5g21150.
Host	Rabbit
Clonality	Polyclonal
Purity	Immunogen affinity purified serum in PBS pH 7.4.
Format	Lyophilized
Quantity	50 µg
Reconstitution	For reconstitution add 50 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 the tubes briefly prior to opening them to avoid any losses that might occur from material adhering to the cap or sides of the tube.

Application information

Recommended dilution	5 µg of antibody per 1 gram of a fresh tissue (IP), 1 : 10 000 (WB)
Expected | apparent MW	101 kDa
Confirmed reactivity	*Arabidopsis thaliana*
Predicted reactivity	*Arabidopsis thaliana*
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Additional information	AGO expression may be cell/tissue specific and using floral tissue is recommended where most of the AGOs are expressed the highest. Seedlings can be used as a negative control. Use of proteasome inhibitors as MG132 can help to stabilize AGO proteins during extraction procedure. A recommended whole-mount immunolocalization protocol can be found here.
Selected references	Hou et al. (2021) High-throughput single-cell transcriptomics reveals the female germline differentiation trajectory in Arabidopsis thaliana. Commun Biol. 2021 Oct 1;4(1):1149. doi: 10.1038/s42003-021-02676-z. PMID: 34599277; PMCID: PMC8486858. (immunolocalization) Oliver & Martinez. (2021) Accumulation dynamics of ARGONAUTE proteins during meiosis in Arabidopsis. Plant Reprod. 2021 Nov 23. doi: 10.1007/s00497-021-00434-z. Epub ahead of print. PMID: 34812935. Sprunck et al. (2019). Elucidating small RNA pathways in Arabidopsis thaliana egg cells. http://dx.doi.org/10.1101/525956 Su et al. (2017). The THO Complex Non-Cell-Autonomously Represses Female Germline Specification through the TAS3-ARF3 Module. Curr Biol. 2017 Jun 5;27(11):1597-1609.e2. doi: 10.1016/j.cub.2017.05.021. Havecker et al. (2010) The RNA-directed DNA methylation Arabidopsis Argonautes functionally diverge based on expression and interaction with target loci. Plant Cell 22(2): 321-34.

Application example



80 µg of *Arabidopsis thaliana* soluble total cell extract (extracted in 20 mMTris 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 chemiluminescent detection reagent according the manufacturer's instructions. Exposure time was 30 seconds.

Courtesy Dr. Ericka Havecker, University of Cambridge, UK