

This product is for research use only (not for diagnostic or therapeutic use)

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Product no AS09 617

## Anti-AGO4 | Argonaute 4

## **Product information**

Immunogen KLH-conjugated synthetic peptide chosen from Arabidopsis thaliana AGO4 sequence UniProt: Q9ZVD5 , TAIR:

**Host** Rabbit

Clonality Polyclonal

**Purity** Immunogen affinity purified serum in PBS pH 7.4.

Format Lyophilized

Quantity 50 ug

**Reconstitution** For reconstitution add 50 μl of sterile water

Store lyophilized/reconstituted at -20 °C; Please remember to spin the tubes briefly prior to opening them to avoid any Storage

losses that might occur adhering to the cap or sides of the tube.

## Application information

Recommended dilution 1:100 (ICC), 5 μg of antibody per 1 gram of a fresh tissue (IP),1:2000-1:5000 (WB)

Expected | apparent

103 kDa

**Confirmed reactivity** Arabidopsis thaliana, Hyacinthus orientalis

Predicted reactivity Arabidopsis thaliana

Not reactive in Brassica oleracea, Fragaria x ananassa, Hordeum vulgare, Solanum lycopersicum, Vigna angularis, Zea mays

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. Use a 6% gel for protein separation, which is run longer to avoid a cross-reactivity at ca. 40 kDa.

Binds endogenous siRNAs, preference for 24nt siRNAs with 5' A.

Note that the AGO4 antibody reacts with the NEB prestained protein marker.

Selected references

**Additional information** 

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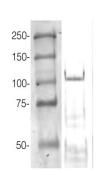
Application example



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360 µg/well of *Arabidopsis thaliana* protein extracted by <u>TCA-acetone precipitation</u> from floral tissue and saturated in 8M urea were separated on 15% SDS-PAGE and blotted for 1hour to 0.2 µm nitrocellulose at 100V using wet transfer system. Blots were blocked with 0.5% cold fish gelatin for 1hr at room temp with agitation. Blot was incubated in the primary antibody at a dilution of 1:2500 for an hour at RT with agitation. The blots were washed with 3X 15min TBS-TT at RT with agitation. Blots as incubated in the secondary antibody (goat anti-rabbit DyLight® 800 conjugated, <u>AS12 2460</u>, Agrisera) 1:5000 dilution for 30 min. at RT with agitation and washed 1X with TBSTT for 15 min, 1X with TBST for 15min before scanning with the ODyssey IRD scanner.

Courtesy of Dr. Betty Chung and Pawel Baster, University of Cambridge, United Kingdom