

Datasheet for ABIN488536
anti-AGO1 antibody (N-Term)[Go to Product page](#)

1 Image

1 Publication

Overview

Quantity:	50 µg
Target:	AGO1 (EIF2C1)
Binding Specificity:	N-Term
Reactivity:	Nicotiana benthamiana, Arabidopsis thaliana
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This AGO1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	N-terminal peptide of Arabidopsis thaliana AGO1 004379, At1g48410
Specificity:	Antibody binds microRNA and tasiRNAs, preference for 21ntmiRNAs with 5'U
Cross-Reactivity (Details):	Not reactive in: Chlamydomonas reinhardtii
Predicted Reactivity:	Brassica pekinensis, Capsella rubella, Malus domestica, Pisum sativum, Ricinus communis, Solanum tuberosum, Zea mays, Vitis vinifera
Characteristics:	Expected / apparent Molecular Weight of the Antigen: 116.4 / 130 kDa Antibody potency and purity has been evaluated by immunoelectrophoresis, single radial immunodiffusion (Ouchterlony), ELISA, immunoblotting and enzyme inhibition.
Purification:	serum

Target Details

Target:	AGO1 (EIF2C1)
Alternative Name:	AGO1 (EIF2C1 Products)
Background:	AGI Code: At1g48410 AGO1 belongs to a group of argonaute proteins which are catalytic component of the RNA- includes silencing complex (RISC). This protein complex is responsible for the gene silencing (RNAi).
Molecular Weight:	expected: 116.4 kDa, apparent: 130 kDa
UniProt:	O04379
Pathways:	Fc-epsilon Receptor Signaling Pathway , Regulatory RNA Pathways , EGFR Signaling Pathway , Neurotrophin Signaling Pathway , Hormone Transport , Regulation of Actin Filament Polymerization , Stem Cell Maintenance , Ribonucleoprotein Complex Subunit Organization

Application Details

Application Notes:	1: 5000 - 1: 10 000 (WB)
Comment:	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. The AGO1 antibody is extremely specific to AGO1 and does not cross-react with other antibodies. The evidence is 1) the peptide to which it was raised is at the very N-terminus of the protein and is not present in other AGOs 2) aAGO1 does not cross react with the AGOs which are overexpressed (AGO2, AGO3, AGO4, AGO5, AGO6, AGO9) using a western blot.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	For reconstitution add 50 µL of sterile water.
Handling Advice:	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.
Storage:	-20 °C
Storage Comment:	store lyophilized/reconstituted at -20°C, once reconstituted make aliquots to avoid repeated

Handling

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.

Publications

Product cited in: Speth, Willing, Rausch, Schneeberger, Laubinger: "RACK1 scaffold proteins influence miRNA abundance in Arabidopsis." in: **The Plant journal : for cell and molecular biology**, Vol. 76, Issue 3, pp. 433-45, (2013) ([PubMed](#)).

Images

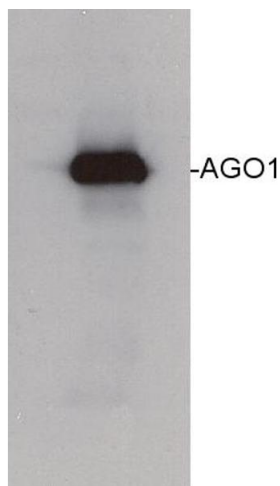


Image 1.