

**#9388** Store at -20C

# Argonaute 1 Antibody


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<b>Applications:</b> WB, IP	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 97	<b>Source:</b> Rabbit	<b>UniProt ID:</b> #Q9UL18	<b>Entrez-Gene Id:</b> 26523
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<b>Product Usage Information</b>	<b>Application</b> Western Blotting Immunoprecipitation	<b>Dilution</b> 1:1000 1:50
<b>Storage</b>	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
<b>Specificity / Sensitivity</b>	Argonaute 1 Antibody detects endogenous levels of total Argonaute 1 protein.	
<b>Source / Purification</b>	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Lys400 of human Argonaute 1 protein. Antibodies are purified by protein A and peptide affinity chromatography.	
<b>Background</b>	Small non-coding RNAs are important regulators of gene expression in higher eukaryotes (1,2). Several classes of small RNAs, including short interfering RNAs (siRNAs) (3), microRNAs (miRNAs) (4), and Piwi-interacting RNAs (piRNAs) (5), have been identified. miRNAs are about 21 nucleotides in length and have been implicated in many cellular processes, such as development, differentiation, and stress response (1,2). miRNAs regulate gene expression by modulating mRNA translation or stability (2). miRNAs function together with the protein components in the complexes called micro-ribonucleoproteins (miRNPs) (2). Among the most important components in these complexes are Argonaute proteins (1,2). There are four members in the mammalian Argonaute family, and only Argonaute 2 (Ago2) possesses the Slicer endonuclease activity (1,2). Argonaute proteins participate in the various steps of miRNA-mediated gene silencing, such as repression of translation and mRNA turnover (1).	
<b>Background References</b>	1. Peters, L. and Meister, G. (2007) <i>Mol Cell</i> 26, 611-23. 2. Filipowicz, W. et al. (2008) <i>Nat Rev Genet</i> 9, 102-14. 3. Caplen, N.J. et al. (2001) <i>Proc Natl Acad Sci USA</i> 98, 9742-7. 4. Mourelatos, Z. et al. (2002) <i>Genes Dev</i> 16, 720-8. 5. Girard, A. et al. (2006) <i>Nature</i> 442, 199-202.	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
<b>Applications Key</b>	<b>WB:</b> Western Blotting <b>IP:</b> Immunoprecipitation
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
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