Argonaute 2 (C34C6) Rabbit mAb





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Applications: W, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 97	Source/Isotype: Rabbit IgG	UniProt ID: #Q8CJG0	Entrez-Gene Id: 239528		
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity/Sen	sitivity	Argonaute 2 (C34C6) Rabbit mAb detects endogenous levels of total Argonaute 2 protein.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro30 of mouse Argonaute 2 protein.						
Background		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).						
Background Re	eferences	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.						
Species Reactiv	vity	Species reactivity is det	ermined by testing	g in at least one approve	d application (e.g.,	western blot).		
Western Blot B	Buffer	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.				1 5% w/v BSA, 1X		
Applications K	ey	W: Western Blotting IP: Immunoprecipitation						
Cross-Reactivit	ty Key	H: Human M: Mouse R: Rat Mk: Monkey						
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