Miwi (G82) Antibody Cell Signaling TECHNOLOGY* Orders: 877-616-CELL (2355) orders@cellsignal.com Support: 877-678-TECH (8324)



Web: info@cellsignal.com cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP, IF-F	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 90	Source/Isotype: Rabbit	UniProt ID: #Q96J94	Entrez-Gene Id: 9271
Product Usage Information	2	Application Western Blotting Immunoprecipitation Immunofluorescence	(Frozen)		Dilution 1:1000 1:50 1:200 - 1:40	D
Storage		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.				
Specificity/Sensitivity		Miwi (G82) Antibody detects endogenous levels of total Miwi protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the sequence surrounding Gly82 of mouse Miwi. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		The <i>Drosophila</i> piwi gene was identified as being required for the self-renewal of germline stem cells (1). Piwi homologs are well conserved among various species including <i>Arabidopsis, C. elegans,</i> and <i>Homo sapiens</i> (1). Both Miwi and Mili proteins are mouse homologs of Piwi and contain a C-terminal Piwi domain (2). Miwi and Mili bind to Piwi-interacting RNAs (piRNAs) in male germ cells and are essential for spermatogenesis in mice (3-5).				
Background R	Background References 1. Cox, D.N. et al. (1998) Genes Dev 12, 3715-27. 2. Kuramochi-Miyagawa, S. et al. (2001) Mech Dev 108, 121-33. 3. Aravin, A. et al. (2006) Nature 442, 203-7. 4. Grivna, S.T. et al. (2006) Proc Natl Acad Sci USA 103, 13415-20. 5. Grivna, S.T. et al. (2006) Genes Dev 20, 1709-14.					
Species Reactivity		Species reactivity is determined by testing in at least one approved application (e.g., western blot).				
Western Blot B	Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting IP: Immunoprecipitation IF-F: Immunofluorescence (Frozen)				
Cross-Reactivity Key		H: Human M: Mouse				
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