


#2079 Store at -20C

Miwi (G82) Antibody



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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB, IP, IF-F	H M	Endogenous	90	Rabbit	#Q96J94	9271

Product Usage Information	Application Western Blotting Immunoprecipitation Immunofluorescence (Frozen)	Dilution 1:1000 1:50 1:200 - 1:400
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 piwi</i> 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</i> , <i>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 References	1. Cox, D.N. et al. (1998) <i>Genes Dev</i> 12, 3715-27. 2. Kuramochi-Miyagawa, S. et al. (2001) <i>Mech Dev</i> 108, 121-33. 3. Aravin, A. et al. (2006) <i>Nature</i> 442, 203-7. 4. Grivna, S.T. et al. (2006) <i>Proc Natl Acad Sci USA</i> 103, 13415-20. 5. Grivna, S.T. et al. (2006) <i>Genes Dev</i> 20, 1709-14.	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Western Blot 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	WB: Western Blotting IP: Immunoprecipitation IF-F: Immunofluorescence (Frozen)
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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