

Miwi (D478) Antibody

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M	Endogenous	90	Rabbit	#Q96J94	9271
Product Usage Information	Application					Dilution
	Western Blotting					1:1000
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 (D478) Antibody detects endogenous levels of total Miwi protein.					
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp478 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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	W: Western Blotting
Cross-Reactivity Key	H: Human M: Mouse
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