

#2025 Store at -20C

## Miwi (D478) 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	H M	Endogenous	90	Rabbit	#Q96J94	9271

<b>Product Usage Information</b>	<b>Application</b> Western Blotting	<b>Dilution</b> 1:1000
<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>	Miwi (D478) Antibody detects endogenous levels of total Miwi protein.	
<b>Source / Purification</b>	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.	
<b>Background</b>	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</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).	
<b>Background References</b>	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.	

<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>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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