

**#5940** Store at -20C

# Mili (D14F5) XP® Rabbit mAb


**Cell Signaling**  
TECHNOLOGY®

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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:
WB, IP, IHC-P, IF-F	M	Endogenous	110	Rabbit IgG	#Q8CDG1	57746

## Product Usage Information

### Application

Western Blotting  
Immunoprecipitation  
Immunohistochemistry (Paraffin)  
Immunofluorescence (Frozen)

### Dilution

1:1000  
1:50  
1:100  
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 / Sensitivity

Mili (D14F5) XP® Rabbit mAb recognizes endogenous levels of total Mili protein.

## Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the residues surrounding Leu118 of mouse Mili protein.

## Background

The *Drosophila piwi* gene was identified as being required for the self-renewal of germ-line stem cells (1). Piwi homologs are well conserved among various species including *Arabidopsis*, *C. elegans*, and human (1). Miwi and Mili proteins are both 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 mouse (3-5).

## 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 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

**WB:** Western Blotting **IP:** Immunoprecipitation **IHC-P:** Immunohistochemistry (Paraffin)  
**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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