

DDX4 (2F9H5) Mouse mAb

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rev. 02/03/16

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Entrez-Gene ID #54514
Swiss-Prot Acc. #Q9NQ10

Applications W, IP	Species Cross-Reactivity* H	Molecular Wt. 80 kDa	Isotype Mouse IgG1**
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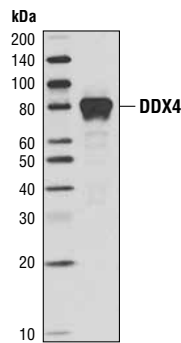
Background: DDX4 is an ATP-dependent DEAD-box RNA helicase found in the chromatoid body of the germ cells (1). This enzyme is specific to the germ cells and is necessary for germ cell development (2). Mouse DDX4 was shown to interact with Dicer suggesting its role in the microRNA-mediated RNA silencing (1).

Specificity/Sensitivity: DDX4 (2F9H5) Mouse mAb detects endogenous levels of total DDX4 protein.

Source/Purification: Monoclonal antibody is produced by immunizing animals with a purified recombinant fragment of human DDX4.

Background References:

- (1) Kotaja, N. et al. (2006) *Proc Natl Acad Sci USA* 103, 2647-52.
- (2) Albamonte, M.S. et al. (2008) *Hum Reprod* 23, 1895-901.



Western blot analysis of extract from human testis tissue using DDX4 (2F9H5) Mouse mAb.

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.

***Species cross-reactivity is determined by western blot.**

****Anti-mouse secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:

Western blotting	1:1000
Immunoprecipitation	1:50

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide

Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey 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

All—all species expected

Species enclosed in parentheses are predicted to react based on 100% homology.