

**MORF4L1/MRG15 (D2Y4J) Rabbit mAb**

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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, IP	H M R Mk	Endogenous	40	Rabbit IgG	#Q9UBU8	10933

**Product Usage Information****Application**

Western Blotting  
Immunoprecipitation

**Dilution**

1:1000  
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**

MORF4L1/MRG15 recognizes endogenous levels of total MORF4L1/MRG15 protein. This antibody may recognize a 90 kDa protein of unknown origin in some cells.

**Species predicted to react based on 100% sequence homology**

Hamster, Chicken, Bovine, Pig

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala237 of human MORF4L1/MRG15 protein.

**Background**

Mortality factor 4-like protein 1 (MORF4L1/MRG15) is a chromo domain-containing protein that is part of several histone modifying complexes, including the Tip60 histone acetyltransferase (HAT) complex, histone deacetylase (HDAC) complexes, and the JARID1A and JARID1B histone demethylase complexes (1-6). MORF4L1/MRG15 recognizes di- or trimethylated Lys36 of histone H3 through its chromo domain. This interaction recruits and anchors MORF4L1/MRG15-associated chromatin modifying complexes to target genes for transcriptional regulation (7,8). MORF4L1/MRG15 plays a role in DNA repair as part of the Tip60 HAT complex (9,10). MORF4L1/MRG15 regulates alternative splicing during co-transcriptional splicing of mRNA as a part of the JARID1A complex (11). MORF4L1/MRG15 recruitment of the JARID1B complex to embryonic stem cell renewal-associated genes is important for repression of cryptic transcription and maintenance of proper transcriptional elongation (6).

**Background References**

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- Yochum, G.S. and Ayer, D.E. (2002) *Mol Cell Biol* 22, 7868-76.
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- Doyon, Y. et al. (2004) *Mol Cell Biol* 24, 1884-96.
- Hayakawa, T. et al. (2007) *Genes Cells* 12, 811-26.
- Xie, L. et al. (2011) *EMBO J* 30, 1473-84.
- Zhang, P. et al. (2006) *Nucleic Acids Res* 34, 6621-8.
- Joshi, A.A. and Struhl, K. (2005) *Mol Cell* 20, 971-8.
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- Garcia, S.N. et al. (2007) *FEBS Lett* 581, 5275-81.
- Luco, R.F. et al. (2010) *Science* 327, 996-1000.

**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 **IP:** Immunoprecipitation

**Cross-Reactivity Key**

**H:** Human **M:** Mouse **R:** Rat **Mk:** Monkey

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