

#14098 Store at -20°C

MORF4L1/MRG15 (D2Y4J) Rabbit mAb**Cell Signaling**
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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	H M R Mk	Endogenous	40	Rabbit IgG	#Q9UBU8	10933

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

Western Blotting

1:1000

Immunoprecipitation

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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2. Yochum, G.S. and Ayer, D.E. (2002) *Mol Cell Biol* 22, 7868-76.
3. Cai, Y. et al. (2003) *J Biol Chem* 278, 42733-6.
4. Doyon, Y. et al. (2004) *Mol Cell Biol* 24, 1884-96.
5. Hayakawa, T. et al. (2007) *Genes Cells* 12, 811-26.
6. Xie, L. et al. (2011) *EMBO J* 30, 1473-84.
7. Zhang, P. et al. (2006) *Nucleic Acids Res* 34, 6621-8.
8. Joshi, A.A. and Struhl, K. (2005) *Mol Cell* 20, 971-8.
9. Murr, R. et al. (2006) *Nat Cell Biol* 8, 91-9.
10. Garcia, S.N. et al. (2007) *FEBS Lett* 581, 5275-81.
11. 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**WB:** Western Blotting **IP:** Immunoprecipitation**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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