

MORF4L1/MRG15 Antibody

Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R	Endogenous	40	Rabbit	#Q9UBU8	10933

Product Usage Information**Application**

Western Blotting

Dilution

1:1000

Storage

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.

Specificity/Sensitivity

MORF4L1/MRG15 Antibody recognizes endogenous levels of total MORF4L1/MRG15 protein. This antibody does not cross-react with MORF4L2/MRGX.

Species predicted to react based on 100% sequence homology

Hamster, Bovine, Dog, Horse, Guinea Pig

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala237 of human MORF4L1/MRG15 protein. Antibodies are purified by protein A and peptide affinity chromatography.

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

1. Pardo, P.S. et al. (2002) *J Biol Chem* 277, 50860-6.
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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

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

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