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MTA1 Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant MTA1.
Catalog # AT2923a

Product Information

Application	WB, IF, E
Primary Accession	Q13330
Other Accession	NM_004689
Reactivity	Human, Mouse, Rat
Host	mouse
Clonality	monoclonal
Isotype	IgG3 Kappa
Clone Names	4D11
Calculated MW	80786

Additional Information

Gene ID	9112
Other Names	Metastasis-associated protein MTA1, MTA1
Target/Specificity	MTA1 (NP_004680, 601 a.a. ~ 700 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	MTA1 Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

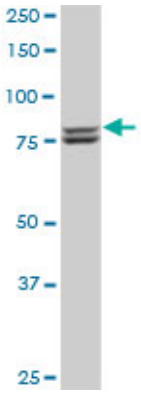
Background

This gene encodes a protein that was identified in a screen for genes expressed in metastatic cells, specifically, mammary adenocarcinoma cell lines. Expression of this gene has been correlated with the metastatic potential of at least two types of carcinomas although it is also expressed in many normal tissues. The role it plays in metastasis is unclear. It was initially thought to be the 70kD component of a nucleosome remodeling deacetylase complex, NuRD, but it is more likely that this component is a different but very similar protein. These two proteins are so closely related, though, that they share the same types of domains. These domains include two DNA binding domains, a dimerization domain, and a domain commonly found in proteins that methylate DNA. The profile and activity of this gene product suggest that it is involved in regulating transcription and that this may be accomplished by chromatin remodeling.

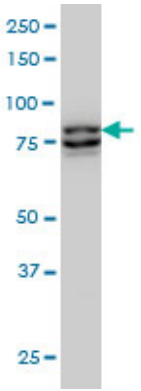
References

Differential regulation of HIC1 target genes by CtBP and NuRD, via an acetylation/SUMOylation switch, in quiescent versus proliferating cells. Van Rechem C, et al. Mol Cell Biol, 2010 Aug. PMID 20547755.Requirement of MTA1 in ATR-mediated DNA damage checkpoint function. Li DQ, et al. J Biol Chem, 2010 Jun 25. PMID 20427275.Foxp1/2/4-NuRD interactions regulate gene expression and epithelial injury response in the lung via regulation of interleukin-6. Chokas AL, et al. J Biol Chem, 2010 Apr 23. PMID 20185820.Revelation of p53-independent function of MTA1 in DNA damage response via modulation of the p21 WAF1-proliferating cell nuclear antigen pathway. Li DQ, et al. J Biol Chem, 2010 Mar 26. PMID 20071335.Stimulation of inducible nitric oxide by hepatitis B virus transactivator protein HBx requires MTA1 coregulator. Bui-Nguyen TM, et al. J Biol Chem, 2010 Mar 5. PMID 20022949.

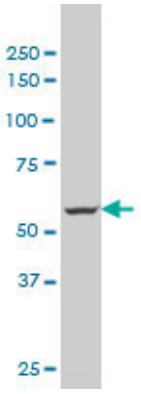
Images



MTA1 monoclonal antibody (M02), clone 4D11. Western Blot analysis of MTA1 expression in PC-12 (Cat # L012V1).

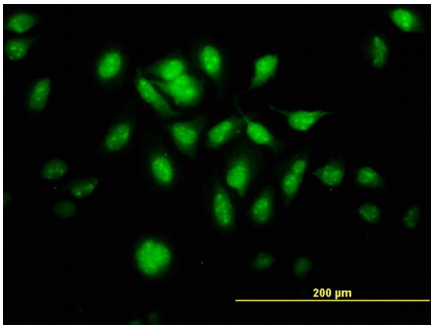


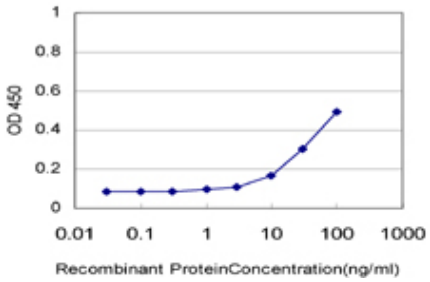
MTA1 monoclonal antibody (M02), clone 4D11 Western Blot analysis of MTA1 expression in Hela S3 NE ((Cat # AT2923a)



MTA1 monoclonal antibody (M02), clone 4D11. Western Blot analysis of MTA1 expression in NIH/3T3 ((Cat # AT2923a)

Immunofluorescence of monoclonal antibody to MTA1 on HeLa cell. [antibody concentration 10 ug/ml]





Detection limit for recombinant GST tagged MTA1 is approximately 3ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.