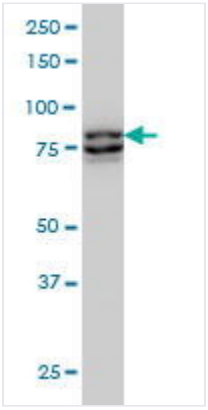
MTA1 Antibody – Mouse Monoclonal

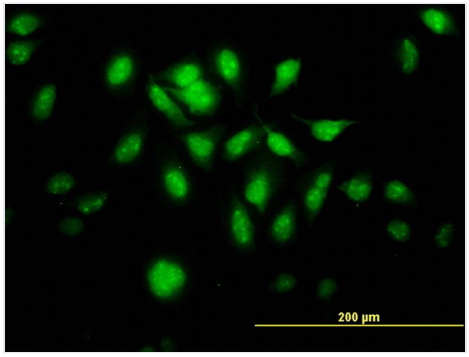
PRODUCT OVERVIEW

Product Name	MTA1, Monoclonal Antibody
Full Product Name	MTA1 (Metastasis Associated 1) (HRP)
Product Gene Name	anti-MTA1 antibody
Product Synonym Names	Metastasis Associated 1
Clonality	Monoclonal
Isotype	IgG3,k
Clone Number	4D11
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with horseradish peroxidase (HRP).
Purity/Purification	Purified
Specificity	Recognizes MTA1.
Preparation and Storage	May be stored at 4 degree C. For long-term storage, aliquot and store at 4 degree C. Do not freeze. Aliquots are stable for 12 months after receipt. For maximum recovery of product, centrifuge the original vial prior to removing the cap. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
OMIM	603526
3D Structure	ModBase 3D Structure for Q13330
Immunogen	MTA1 (NP_004680, 601aa-700aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MPSRGLANHGQTRHMGPSRNLLLNGKSYPTKVRLIRGGSLPPVKRRRMNWIDAPDDVFYMATEETRKIRKLLSSSETKRAARRPYKPIALRQSQALPPRF
Conjugate	HRP
Product Categories/Family for anti-MTA1 antibody	Antibodies; Apoptosis
Applications Tested/Suitable for anti-MTA1 antibody	Immunofluorescence (IF), Western Blot (WB)
Application Notes for anti-MTA1 antibody	Applications are based on unconjugated antibody.

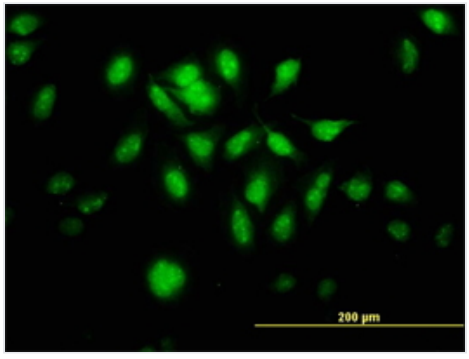
Related Product Information for anti-MTA1 antibody	This gene encodes a protein that was identified in a screen for genes expressed in metastatic cells, specifically, mammary adenocarcinoma cell lines. Expression of this gene has been correlated with the metastatic potential of at least two types of carcinomas 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. [provided by RefSeq]
Other Notes	Small volumes of anti-MTA1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MTA1 purchase	MBS6179458 is an antibody targeting MTA1. Also known as MTA1 (Metastasis Associated 1) (HRP). Host: Mouse.



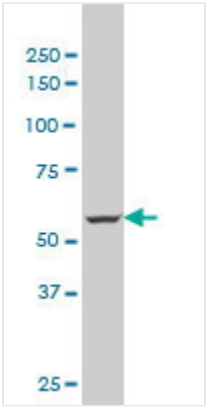
Western Blot (WB) of anti-MTA1 antibody
MTA1 monoclonal antibody (M02), clone 4D11 Western Blot analysis of MTA1 expression in Hela S3 NE (Cat # L013V3).



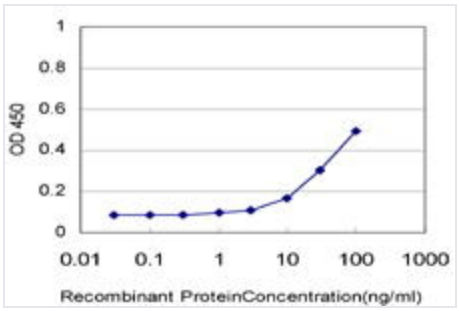
Immunofluorescence (IF) of anti-MTA1 antibody
Immunofluorescence of monoclonal antibody to MTA1 on HeLa cell. [antibody concentration 10 ug/ml]



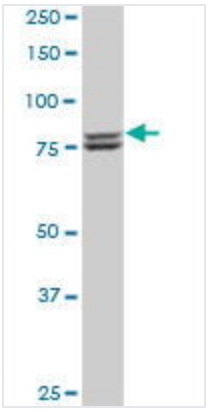
Immunofluorescence (IF) of anti-MTA1 antibody
Immunofluorescence of monoclonal antibody to MTA1 on HeLa cell. [antibody concentration 10 ug/ml]



Western Blot (WB) of anti-MTA1 antibody
MTA1 monoclonal antibody (M02), clone 4D11. Western Blot analysis of MTA1 expression in NIH/3T3 (Cat # L018V1).



Testing Data of anti-MTA1 antibody
Detection limit for recombinant GST tagged MTA1 is approximately 3ng/ml as a capture antibody.



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

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MTA1. It may not necessarily be applicable to this product.

NCBI GI #	115527080
NCBI GeneID	9112
NCBI Accession #	NP_004680
UniProt Primary Accession #	Q13330
UniProt Related Accession #	Q13330
GenBank Nucleotide #	NP_004680.2
NCBI Official Full Name	metastasis-associated protein MTA1 isoform MTA1
NCBI Official Synonym Full Names	metastasis associated 1
NCBI Official Symbol	MTA1
UniProt Protein Name	Metastasis-associated protein MTA1
Protein Family	Mating type protein
UniProt Gene Name	MTA1
UniProt Entry Name	MTA1_HUMAN
NCBI Protein Information	metastasis-associated protein MTA1
NCBI Summary for MTA1	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. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2011]

UniProt Comments for MTA1	MTA1: metastasis-associated protein. A component of the NuRD ATP-dependent chromatin remodeling and histone deacetylase complex. Interacts with HDAC1. Expressed at high levels in metastatic cells. Two alternatively spliced isoforms have been described. The long isoform is a co-repressor of estrogen receptor (ER). The short isoform binds to ER and sequesters it in the cytoplasm and enhances non-genomic responses of ER. Protein type: Nuclear receptor co-regulator; Transcription, coactivator/corepressor; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 14q32.3 Cellular Component: nucleoplasm; microtubule; intracellular membrane-bound organelle; cytoplasm; nuclear envelope; NuRD complex; nucleus Molecular Function: protein binding; zinc ion binding; transcription coactivator activity; chromatin binding; transcription factor activity; transcription corepressor activity Biological Process: proteasomal ubiquitin-dependent protein catabolic process; locomotor rhythm; establishment and/or maintenance of chromatin architecture; transcription, DNA-dependent; regulation of transcription, DNA-dependent; double-strand break repair; regulation of inflammatory response; response to lipopolysaccharide; circadian regulation of gene expression; response to ionizing radiation; signal transduction; regulation of gene expression, epigenetic; entrainment of circadian clock by photoperiod
Research Articles on MTA1	**1.** Upregulation of MTA1 expression by human papillomavirus infection promotes cisplatin resistance in cervical cancer cells via modulation of NF-kappaB/APOBEC3B cascade
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