Recombinant Human MTA1, His-tagged

Cat. No. MTA1-29503TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 105-452 of Human MTA1 with N terminal His tag; 348 amino acids, 40kDa.
Species	Human
Source	E.coli
ProteinLength	105-452 a.a.
Description	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.
Conjugation	HIS

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Tissue specificity	Widely expressed. High expression in brain, ovaries, adrenal glands and virgin mammary glands. Higher in tumors than in adjacent normal tissue from the same individual.
Form	Lyophilised:Reconstitute with 96 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	HRELFLSRQLESLPATHIRGKCSVTLLNETESLKSYLERE DFFFYSLVYDPQQKTLLA DKGEIRVGNRYQADITDLLK EGEEDGRDQSRLETQVWEAHNPLTDKQIDQFLVVAR SVGT FARALDCSSSVRQPSLHMSAAAASRDITLFHAMDTLHK NIYDISKAISALVPQ GGPVLCRDEMEEWSASEANLFEE ALEKYGKDFTDIQQDFLPWKSLTSIIEYYYMWK TTDRYVQ QKRLKAAEAESKLKQVYIPNYNKPNPNQISVNNVKAGV VNGTGAPGQS PGAGRACESCYTTQSYQWYSWGPPNMQC RLCASCWTYWKKYGGLKMPTRLDG ERPGPNRSNMSPHG
Sequence Similarities	Contains 1 BAH domain.Contains 1 ELM2 domain.Contains 1 GATA-type zinc finger.Contains 1 SANT domain.

GENE INFORMATION

Gene Name	MTA1 metastasis associated 1 [Homo sapiens]
Official Symbol	MTA1
Synonyms	MTA1; metastasis associated 1; metastasis-associated protein MTA1;
Gene ID	9112

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mRNA Refseq	NM_001203258
Protein Refseq	NP_001190187
MIM	603526
Uniprot ID	Q13330
Chromosome Location	14q32.33
Pathway	Validated targets of C-MYC transcriptional activation, organism-specific biosystem;
Function	metal ion binding; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; zinc ion binding;

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