

Recombinant Human MTA1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MTA1-5096H Lot. No. (See product label)

SPECIFICATION

Product Overview	MTA1 MS Standard C13 and N15-labeled recombinant protein (NP_004680) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	<p>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.</p>
Molecular Mass	80.6 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AA Sequence

MAANMYRVGDYVYFENSSSNPYLIRRIEELNKTANGNVEAKVVCFYRRRDISSTLIAL
 ADKHATLSVCYKAGPGADNGEEGEIEEEMENPEMVDLPEKCLKHQLRHRELFLSRQL
 ESLPATHIRGKCSVTLLNETESLKSYLEDFFFYSLVYDPQQKTLADKGEIRVGNR
 YQADITDLLKEGEEDGRDQSRLETQVWEAHNPLTDKQIDQFLVVARVSGTFARALD
 CSSSVRQPSLHMSAAAASRDITLFHAMDTLHKNIDISKAISALVPQGGPVLCRDEM
 EEWSASEANLFEEALEKYGKDFTDIQQDFLPWKSLTSIIIEYYMWKTTDRYVQQKRL
 KAAEAESKLGQVYIPNYNKPNNQISVNNIKAGVVNGTGAPGQSPGAGRACESCYT
 TQSYQWYSWGPPNMQCRLCASCWTYWKYGGGLKMPTRLDGERPGPNRSNMSPH
 GLPARSSGSPKFAMKTRQAFYLHTTKLTRIARRLCREILRPWHAARHPYLPINSAAIK
 AECTARLPEASQSPLVLKQAVRKPLEAVLRYLETHPRPPKPDVKS SVSSLTPA
 KVAPVINNGSPTILGKRSYEQHNGVDGNMCKRLLMPSRGLANHGQTRHMGPSRNL
 LLNGKSYPTKVRILIRGGSLPPVKRRRMNWIDAPDDVFYIMATEETRKRKLLSSSETK
 RAARRPYKPIALRQSQUALPPRPPPPAPVNDEPIVIEDTRTRPLEQKLISEEDLAANDIL
 DYKDDDDKV

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Stability

Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage

Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration

50 µg/mL as determined by BCA

Storage Buffer

100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name

MTA1 metastasis associated 1 [Homo sapiens (human)]

Official Symbol

MTA1

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Synonyms	MTA1; metastasis associated 1; metastasis-associated protein MTA1; metastasis associated gene 1 protein;
Gene ID	9112
mRNA Refseq	NM_004689
Protein Refseq	NP_004680
MIM	603526
UniProt ID	Q13330



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