MTA2 Peptide - C-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	MTA2, Blocking Peptide
Full Product Name	MTA2 Peptide - C-terminal region
Product Gene Name	MTA2 blocking peptide
Product Synonym Gene Name	MTA2;MTA1L1; PID;
Sequence	Synthetic peptide located within the following region: KDLVAQAPLK PKTPRGTKTP INRNQLSQNR GLGGIMVKRA YETMAGAGVP
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	MTA2 peptide (MBS3244642) is used for blocking the activity of MTA2 antibody (MBS3219778)
Molecular Weight	73kDa
OMIM	603947
Product Categories/Family for MTA2 blocking peptide	Peptide
Related Product Information for MTA2 blocking peptide	This is a synthetic peptide designed for use in combination with anti-MTA2 Antibody, made Target Description: This gene encodes a protein that has been identified as a component of NuRD, a nucleosome remodeling deacetylase complex identified in the nucleus of human cells. It shows a very broad expression pattern and is strongly expressed in many tissues. It may represent one member of a small gene family that encode different but related proteins involved either directly or indirectly in transcriptional regulation. Their indirect effects on transcriptional regulation may include chromatin remodeling. It is closely related to another member of this family, a protein that has been correlated with the metastatic potential of certain carcinomas. These two proteins are so closely related 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. One of the proteins known to be a target protein for this gene product is p53. Deacetylation of p53 is correlated with a loss of growth inhibition in transformed cells supporting a connection between these gene family members and metastasis.
Other Notes	Small volumes of MTA2 blocking peptide 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 MTA2 purchase	MBS3244642 is a blocking peptide targeting MTA2. Also known as MTA2 Peptide - C-terminal region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MTA2. It may not necessarily be applicable to this product.

NCBI GI #	14141170
NCBI GeneID	9219
NCBI Accession #	NP_004730
UniProt Primary Accession #	O94776

UniProt Related Accession #	O94776
GenBank Nucleotide #	NM_004739.4
NCBI Official Full Name	metastasis-associated protein MTA2 isoform 1
NCBI Official Synonym Full Names	metastasis associated 1 family member 2
NCBI Official Symbol	MTA2
NCBI Official Synonym Symbols	PID; MTA1L1
UniProt Protein Name	Metastasis-associated protein MTA2
UniProt Synonym Protein Names	Metastasis-associated 1-like 1; MTA1-L1 protein; p53 target protein in deacetylase complex
Protein Family	Metastasis-associated protein
UniProt Gene Name	MTA2
UniProt Synonym Gene Names	MTA1L1; PID; MTA1-L1 protein
UniProt Entry Name	MTA2_HUMAN
NCBI Protein Information	metastasis-associated protein MTA2
NCBI Summary for MTA2	This gene encodes a protein that has been identified as a component of NuRD, a nucleosome remodeling deacetylase complex identified in the nucleus of human cells. It shows a very broad expression pattern and is strongly expressed in many tissues. It may represent one member of a small gene family that encode different but related proteins involved either directly or indirectly in transcriptional regulation. Their indirect effects on transcriptional regulation may include chromatin remodeling. It is closely related to another member of this family, a protein that has been correlated with the metastatic potential of certain carcinomas. These two proteins are so closely related 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. One of the proteins known to be a target protein for this gene product is p53. Deacetylation of p53 is correlated with a loss of growth inhibition in transformed cells supporting a connection between these gene family members and metastasis. [provided by RefSeq, May 2011]
UniProt Comments for MTA2	MTA2: May be involved in the regulation of gene expression as repressor and activator. The repression might be related to covalent modification of histone proteins. Protein type: Transcription factor; DNA-binding; Motility/polarity/chemotaxis; Nuclear receptor co-regulator; Deacetylase Chromosomal Location of Human Ortholog: 11q12-q13.1 Cellular Component: nucleoplasm; transcription factor complex; protein complex; membrane; histone deacetylase complex; nuclear chromatin; NuRD complex Molecular Function: protein binding; nucleosomal DNA binding; zinc ion binding; histone deacetylase activity; transcription factor activity Biological Process: chromatin assembly or disassembly; establishment and/or maintenance of chromatin architecture; ATP-dependent chromatin remodeling; DNA methylation; positive regulation of transcription from RNA polymerase II promoter; histone deacetylation; negative regulation of transcription from RNA polymerase II promoter
Research Articles on MTA2	**1.** This study is the first to demonstrate that SNHG5 is a critical and powerful regulator that is involved in GC progression through trapping MTA2 in the cytosol.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/human-blocking-peptide/mta2/3244642