MTA1 Peptide-Middle Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	MTA1, Blocking Peptide
Full Product Name	MTA1 Peptide-middle region
Product Gene Name	MTA1 blocking peptide
Sequence	TPAKVAPVIN NGSPTILGKR SYEQHNGVDG NMKKRLLMPS RGLANHGQAR
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	MTA1 peptide (MBS3249583) is used for blocking the activity of MTA1 antibody (MBS3249909)
Molecular Weight	81kDa
OMIM	603526
Quality Control	The peptide is characterized by mass spectroscopy
Protein Size	715 amino acids
Related Product Information for MTA1 blocking peptide	This is a synthetic peptide designed for use in combination with anti-MTA1 Antibody. It may block above mentioned antibody from binding to its target protein in western blot and/or immunohistochecmistry under proper experimental settings. Description of Target: 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.
Other Notes	Small volumes of MTA1 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 MTA1 purchase	MBS3249583 is a blocking peptide targeting MTA1. Also known as MTA1 Peptide-middle region. Reactive in Human.

ADDITIONAL DETAILS

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

NCBI GeneID	9112
NCBI Accession #	NM_001203258.1
UniProt Primary Accession #	Q13330
UniProt Related Accession #	NP_001190187.1

UniProt Protein Name	Metastasis-associated protein MTA1
Protein Family	Mating type protein
UniProt Gene Name	MTA1
UniProt Entry Name	MTA1_HUMAN
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
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