MTAP Positive Control

PRODUCT OVERVIEW

Product Name	MTAP, Positive Control
Full Product Name	MTAP Positive Control
Product Gene Name	MTAP positive control
Product Synonym Names	5' methylthioadenosine phosphorylase; BDMF; c86fus; DMSFH; DMSMFH; Epididymis luminal protein 249; HEL 249; LGMBF; MeSAdo phosphorylase; Methylthioadenosine phosphorylase; MSAP; MTA phosphorylase; MTAP; MTAPase; S methyl 5 thioadenosine phosphorylase antibody
Form/Format	Positive Control
Preparation and Storage	-20• degree C for long term storage
Matching Pairs	Antibody: MTAP (MBS5400246) Positive Control: MTAP (MBS543381)
Matching Pairs	Antibody: MTAP (MBS5400247) Positive Control: MTAP (MBS543381)
Matching Pairs	Antibody: MTAP (MBS5400248) Positive Control: MTAP (MBS543381)
Molecular Weight	26,278 Da
OMIM	112250
3D Structure	ModBase 3D Structure for Q13126
Immunogen	Purified Protein
Expression	Ubiquitously expressed.
Molecular Function	Phosphorylase activity; S-methyl-5-thioadenosine phosphorlase activity; Glycosyl transferase; Purine Salvage
Structure	Homotrimer
Subcellular Location	Cytoplasm; Nucleus
Applications Tested/Suitable for MTAP positive control	Western Blot (WB)
Application Notes for MTAP positive control	Western Blot: 1:500
Related Product Information for MTAP positive control	Western Blot Positive Control Methylthioadenosine Phosphorylase Catalyzes the reversible phosphorylation of S-methyl-5'-thioadenosine (MTA) to adenine and 5-methylthioribose-1-phosphate. Involved in the breakdown of MTA, a major by-product of polyamine biosynthesis. Responsible for the first step in the methionine salvage pathway after MTA has been generated from S-adenosylmethionine. Has broad substrate specificity with 6-aminopurine nucleosides as preferred substrates.
Other Notes	Small volumes of MTAP positive control 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 MTAP purchase	MBS543381 is a positive control targeting MTAP.

ADDITIONAL DETAILS

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

NCBI GI #	11602392
NCBI GeneID	4507
NCBI Accession #	AAG38871.1
UniProt Primary Accession #	Q13126
UniProt Secondary Accession #	Q5T3P3; Q9H010; I2G7M5; I2G7M6; I2G7M7; I2G7M8; I2G7M9; I2G7N0
UniProt Related Accession #	Q13126
NCBI Official Full Name	methylthioadenosine phosphorylase
NCBI Official Synonym Full Names	methylthioadenosine phosphorylase
NCBI Official Symbol	MTAP
NCBI Official Synonym Symbols	BDMF; MSAP; DMSFH; LGMBF; DMSMFH; c86fus; HEL-249
UniProt Protein Name	S-methyl-5'-thioadenosine phosphorylase
UniProt Synonym Protein Names	5'-methylthioadenosine phosphorylase
Protein Family	S-methyl-5'-thioadenosine phosphorylase
UniProt Gene Name	MTAP
UniProt Synonym Gene Names	MTA phosphorylase; MTAP; MTAPase
UniProt Entry Name	MTAP_HUMAN
NCBI Protein Information	S-methyl-5'-thioadenosine phosphorylase
NCBI Summary for MTAP	This gene encodes an enzyme that plays a major role in polyamine metabolism and is important for the salvage of both adenine and methionine. The encoded enzyme is deficient in many cancers because this gene and the tumor suppressor p16 gene are co-deleted. Multiple alternatively spliced transcript variants have been described for this gene, but their full-length natures remain unknown. [provided by RefSeq, Jul 2008]
UniProt Comments for MTAP	MTAP: Catalyzes the reversible phosphorylation of S-methyl-5'- thioadenosine (MTA) to adenine and 5-methylthioribose-1-phosphate. Involved in the breakdown of MTA, a major by-product of polyamine biosynthesis. Responsible for the first step in the methionine salvage pathway after MTA has been generated from S-adenosylmethionine. Has broad substrate specificity with 6- aminopurine nucleosides as preferred substrates. Homotrimer. Ubiquitously expressed. Inhibited by 5'-methylthiotubercin and 5'- chloroformycin. Belongs to the PNP/MTAP phosphorylase family. MTAP subfamily. Protein type: EC 2.4.2.28; Amino Acid Metabolism - cysteine and methionine; Transferase; Phosphorylase Chromosomal Location of Human Ortholog: 9p21 Cellular Component: cytoplasm; cytosol; nucleus Molecular Function: phosphorylase activity; protein binding; S-methyl-5-thioadenosine phosphorylase activity Biological Process: methionine salvage; methylation; nicotinamide riboside catabolic process; nucleobase, nucleoside, nucleotide and nucleic acid metabolic process; purine ribonucleoside salvage; purine salvage; response to testosterone stimulus
Research Articles on MTAP	**1.** study to describe MTAP expression in a series of Pilocytic astrocytomas and relate it to the clinicopathological features of the patients; found MTAP expression is retained in Pilocytic astrocytomas and is not an outcome predictor for these tumors
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