METAP2 Antibody (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	METAP2, Blocking Peptide
Full Product Name	METAP2 Antibody (N-term) Blocking Peptide
Product Gene Name	METAP2 blocking peptide
Product Synonym Names	Methionine aminopeptidase 2; MAP 2; MetAP 2; 341118; Initiation factor 2-associated 67 kDa glycoprotein; p67; p67eIF2; Peptidase M; METAP2
Form/Format	The synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml deionized water for a final concentration of 1 mg/ml.
Specificity	The synthetic peptide sequence used to generate the antibody was selected from the N-term region of human METAP2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	METAP2 peptide (MBS9224647) is used for blocking the activity of METAP2 antibody (MBS9201625)
Molecular Weight	50,497 Da
OMIM	601870
Cellular Location	Cytoplasm. Note: About 30% of expressed METAP2 associates with polysomes
Related Product Information for METAP2 blocking peptide	Cotranslationally removes the N-terminal methionine from nascent proteins. The N-terminal methionine is often cleaved when the second residue in the primary sequence is small and uncharged (Met-Ala-, Cys, Gly, Pro, Ser, Thr, or Val). The catalytic activity of human METAP2 toward Met-Val peptides is consistently two orders of magnitude higher than that of METAP1, suggesting that it is responsible for processing proteins containing N-terminal Met-Val and Met-Thr sequences in vivo.
Other Notes	Small volumes of METAP2 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 METAP2 purchase	MBS9224647 is a blocking peptide targeting METAP2. Also known as METAP2 Antibody (N-term) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for METAP2. It may not necessarily be applicable to this product.

NCBI GI #	5803092
NCBI GeneID	10988
NCBI Accession #	NP_006829
UniProt Primary Accession #	P50579
UniProt Secondary Accession #	Q8NB11; B2RDI8; B4DUX5; G3XA91
UniProt Related Accession #	P50579
GenBank Nucleotide #	NM_006838.3
NCBI Official Full Name	methionine aminopeptidase 2 isoform 1
NCBI Official Synonym Full Names	methionyl aminopeptidase 2

NCBI Official Symbol	METAP2
NCBI Official Synonym Symbols	MAP2; MNPEP; p67eIF2
UniProt Protein Name	Methionine aminopeptidase 2
UniProt Synonym Protein Names	Initiation factor 2-associated 67 kDa glycoprotein
UniProt Gene Name	METAP2
UniProt Synonym Gene Names	MAP 2; MetAP 2; p67; p67eIF2
UniProt Entry Name	MAP2_HUMAN
NCBI Protein Information	methionine aminopeptidase 2
NCBI Summary for METAP2	The protein encoded by this gene is a member of the methionyl aminopeptidase family. The encoded protein functions both by protecting the alpha subunit of eukaryotic initiation factor 2 from inhibitory phosphorylation and by removing the amino-terminal methionine residue from nascent proteins. Increased expression of this gene is associated with various forms of cancer, and the anti-cancer drugs fumagillin and ovalicin inhibit the protein by irreversibly binding to its active site. Inhibitors of this gene have also been shown to be effective for the treatment of obesity. A pseudogene of this gene is located on chromosome 2. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2015]
UniProt Comments for METAP2	METAP2: Removes the N-terminal methionine from nascent proteins. The catalytic activity of human METAP2 toward Met-Val peptides is consistently two orders of magnitude higher than that of METAP1, suggesting that it is responsible for processing proteins containing N-terminal Met-Val and Met-Thr sequences in vivo. Interacts strongly with the eIF-2 gamma-subunit EIF2S3. Binds EIF2S1 at low magnesium concentrations. Belongs to the peptidase M24A family. Protein type: Protease; EC 3.4.11.18 Chromosomal Location of Human Ortholog: 12q22 Cellular Component: cytoplasm; cytosol; plasma membrane Molecular Function: aminopeptidase activity; metalloexopeptidase activity Biological Process: N-terminal protein amino acid modification; peptidyl-methionine modification; protein processing; regulation of rhodopsin mediated signaling
Research Articles on METAP2	**1.** Suggest MetAP2 as important regulator of proliferation/apoptosis in non-small cell lung cancers.
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