Datasheet for ABIN7317733

MAP1D Protein (His tag)

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Overview

Quantity:	50 µg
Target:	MAP1D (METAP1D)
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This MAP1D protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human MAP1D Protein (His Tag)(Active)
Sequence:	Arg 44-Ala 335
Characteristics:	A DNA sequence encoding the human MAP1D (NP_954697.1) (Arg 44-Ala 335) was expressed, with an initial Met at the N-terminus and a polyhistidine tag at the C-terminus.
Purity:	> 92 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measure by its ability to remove methionine from a fluorogenic peptide substrate H-Met-Gly-Pro-AMC, R&D Systems, Catalog#ES017. The resulting GP-AMC is cleaved by human DPPIV/CD26, R&D Systems, Catalog#1180SE. The specific activity is >30 pmoles/min/µg.

Target Details

Target:	MAP1D (METAP1D)

Target Details

Alternative Name:	MAP1D (METAP1D Products)
Background:	Background: Methionine aminopeptidase 1D, also known as MAP1D, is a member of the peptidase M24A family. N-terminal methionine removal is an important cellular process required for proper biological activity, subcellular localization, and eventual degradation of many proteins. The enzymes that catalyze this reaction are called Methionine aminopeptidases (MAPs). MAP1D is overexpressed in colon cancer cell lines and colon tumors as compared to normal tissues (at protein level). Downregulation of MAP1D expression by shRNA in HCT-116 colon carcinoma cells reduces anchorage-independant growth in soft agar. MAP1D binds two cobalt ions per subunit. The true nature of the physiological cofactor is under debate. MAP1D is also active with zinc, manganese or divalent ions. MAP1D removes the amino-terminal methionine from nascent proteins. It may also play an important role in colon tumorigenesis. Synonym: Methionine Aminopeptidase 1D Mitochondrial; Methionyl Aminopeptidase Type 1D Mitochondrial; METAP1D; MAP1D;MAP 1D;MetAP 1D;Metap1l
Molecular Weight:	33.4 kDa
NCBI Accession:	NP_954697

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 50 mM Tris, 100 mM NaCl, pH 8.0
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.