

Human Methionine Aminopeptidase 1D/ MAP1D Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF4714

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Methionine Aminopeptidase 1D/MAP1D in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human Methionine Aminopeptidase 1D/MAP1D Arg44-Ala335 Accession # Q6UB28
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Human Methionine Aminopeptidase 1D/MAP1D (Catalog # 4714-ZN)
Immunoprecipitation	25 µg/mL	Conditioned cell culture medium spiked with Recombinant Human Methionine Aminopeptidase 1D/MAP1D (Catalog # 4714-ZN), see our available Western blot detection antibodies

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Methionine Aminopeptidase 1D (MAP1D) is a member of the Methionine Aminopeptidase family (MetAPs) (1). MetAPs catalyze the removal of the initiator methionine residue from nascent peptides (2) and are essential for cell growth (3). MAP1D is localized in mitochondria (4) and is over-expressed in colon cancer cell lines and colon tumors (1). The N-terminal leader peptide (residue 1-43) of MAP1D has been shown to be responsible for targeting to mitochondria (4).

References:

1. Leszczyniecka, M. *et al.* (2006) *Oncogene* **25**:3471.
2. Lowther, W.T. and B.W. Matthews (2000) *Biochim. Biophys. Acta* **1477**:157.
3. Li, X. and Y.H. Chang (1995) *Proc. Natl. Acad. Sci. USA* **92**:12357.
4. Serero, A. *et al.* (2003) *J. Biol. Chem.* **278**:52953.