

METAP2 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP14389a**Specification**

METAP2 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [P50579](#)**METAP2 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 10988**Other Names**

Methionine aminopeptidase 2 {ECO:0000255|HAMAP-Rule:MF_03175}, MAP 2 {ECO:0000255|HAMAP-Rule:MF_03175}, MetAP 2 {ECO:0000255|HAMAP-Rule:MF_03175}, 341118 {ECO:0000255|HAMAP-Rule:MF_03175}, Initiation factor 2-associated 67 kDa glycoprotein {ECO:0000255|HAMAP-Rule:MF_03175}, p67 {ECO:0000255|HAMAP-Rule:MF_03175}, p67eIF2 {ECO:0000255|HAMAP-Rule:MF_03175}, Peptidase M {ECO:0000255|HAMAP-Rule:MF_03175}, METAP2 {ECO:0000255|HAMAP-Rule:MF_03175}

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

METAP2 Antibody (N-term) Blocking Peptide - Protein Information**Name** METAP2 {ECO:0000255|HAMAP-Rule:MF_03175}**Synonyms** MNPEP, P67EIF2**Function**

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.

Cellular Location

Cytoplasm {ECO:0000255|HAMAP-Rule:MF_03175, ECO:0000269|PubMed:21537465}. Note=About 30% of expressed METAP2 associates with polysomes

METAP2 Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

METAP2 Antibody (N-term) Blocking Peptide - Images

METAP2 Antibody (N-term) Blocking Peptide - Background

This gene is a member of the methionyl aminopeptidase family and encodes a protein that binds 2 cobalt or manganese ions. This 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 protein. 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. A pseudogene of this gene is located on chromosome 2.

METAP2 Antibody (N-term) Blocking Peptide - References

Xiao, Q., et al. Biochemistry 49(26):5588-5599(2010) Wang, X., et al. PLoS ONE 5 (8), E11934 (2010) :Selvakumar, P., et al. Mol. Cancer 8, 65 (2009) :Warder, S.E., et al. J. Proteome Res. 7(11):4807-4820(2008) Tucker, L.A., et al. Oncogene 27(28):3967-3976(2008)