

METAP2 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14389a**Specification**

METAP2 Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	P50579
Other Accession	NP_006829.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	52892
Antigen Region	33-61

METAP2 Antibody (N-term) - 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}

Target/Specificity

This METAP2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 33-61 amino acids from the N-terminal region of human METAP2.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

METAP2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

METAP2 Antibody (N-term) - 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

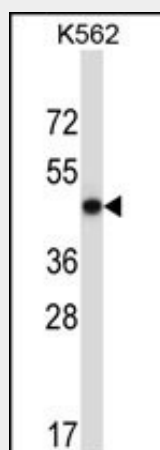
Cytoplasm {ECO:0000255|HAMAP-Rule:MF_03175, ECO:0000269|PubMed:21537465}. Note=About 30% of expressed METAP2 associates with polysomes

METAP2 Antibody (N-term) - Protocols

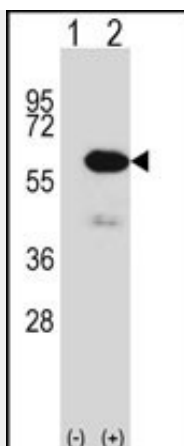
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

METAP2 Antibody (N-term) - Images



METAP2 Antibody (N-term) (Cat. #AP14389a) western blot analysis in K562 cell line lysates (35ug/lane). This demonstrates the METAP2 antibody detected the METAP2 protein (arrow).



Western blot analysis of METAP2 (arrow) using rabbit polyclonal METAP2 Antibody (N-term) (Cat. #AP14389a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the METAP2 gene.

METAP2 Antibody (N-term) - 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) - 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)