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METAP2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14389a

Product Information

Application	WB, E
Primary Accession	P50579
Other Accession	NP_006829.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB34311
Calculated MW	52892
Antigen Region	33-61

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.

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

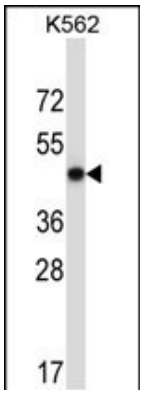
Background

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.

References

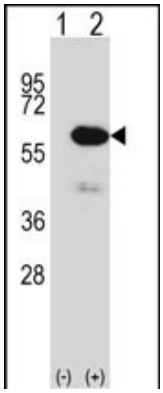
Xiao, Q., et al. Biochemistry 49(26):5588-5599(2010)
Wang, X., et al. PLoS ONE 5 (8), E11934 (2010) :
Selvakumar, P., et al. Mol. Cancer 8, 65 (2009) :
Warder, S.E., et al. J. Proteome Res. 7(11):4807-4820(2008)
Tucker, L.A., et al. Oncogene 27(28):3967-3976(2008)

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.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.