



Rabbit Anti-Methionine Aminopeptidase 2 antibody

SL18804R

Product Name:	Methionine Aminopeptidase 2
Chinese Name:	蛋氨酸氨肽酶2抗体
Alias:	A930035J23Rik; AI047573; AL024412; Amp2; AMPM2_HUMAN; AU014659,; EIF 2 associated p67 homolog; EIF-2-associated p67; Initiation factor 2 associated 67 kDa glycoprotein; Initiation factor 2-associated 67 kDa glycoprotein; MAP 2; MAP2; MetAP 2; Metap2; Methionine aminopeptidase 2; Methionyl aminopeptidase 2; MGC102452; MGC127390; MGC53792; MNPEP; p67; p67eIF2; Peptidase M 2; Peptidase M2.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	53kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Methionine Aminopeptidase 2:401-478/478
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed

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. [provided by RefSeq, Jul 2008]

Function:

Removes the amino-terminal methionine from nascent proteins. 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*.

Subunit:

Interacts strongly with the eIF-2 gamma-subunit EIF2S3 By similarity. Binds EIF2S1 at low magnesium concentrations.

Post-translational modifications:

Contains approximately 12 O-linked N-acetylglucosamine (GlcNAc) residues. O-glycosylation is required for EIF2S1 binding.

Similarity:

Belongs to the peptidase M24A family.

SWISS:

P50579

Gene ID:

10988

Database links:

[Entrez Gene: 10988](#) Human

[Entrez Gene: 404150](#) Cow

[Entrez Gene: 56307](#) Mouse

[Entrez Gene: 64370](#) Rat

[Omim: 601870](#) Human

[SwissProt: Q3ZC89](#) Cow

[SwissProt: P50579](#) Human

Product Detail:

[SwissProt: O08663](#) Mouse

[SwissProt: P38062](#) Rat

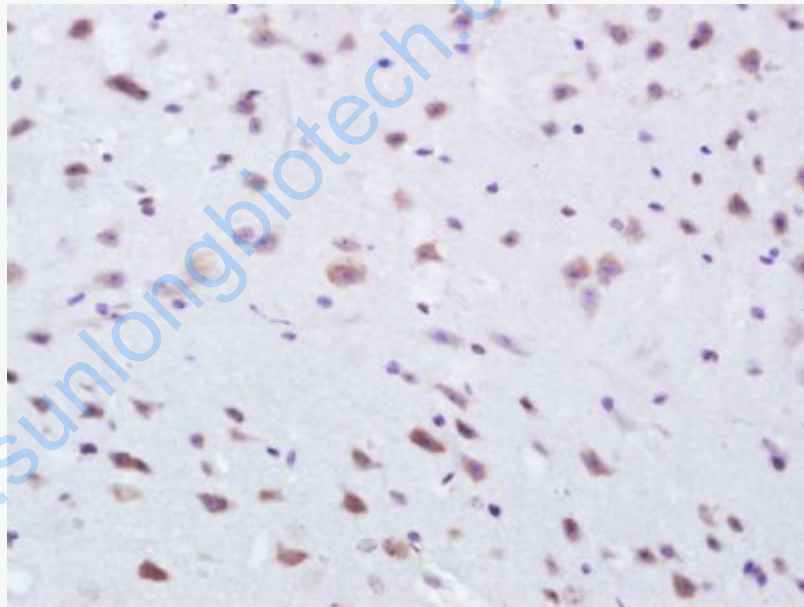
[Unigene: 444986](#) Human

[Unigene: 289329](#) Mouse

[Unigene: 1984](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



Picture:

Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Amp2) Polyclonal Antibody, Unconjugated (SL18804R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

