

Anti-Methionine Aminopeptidase 2 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

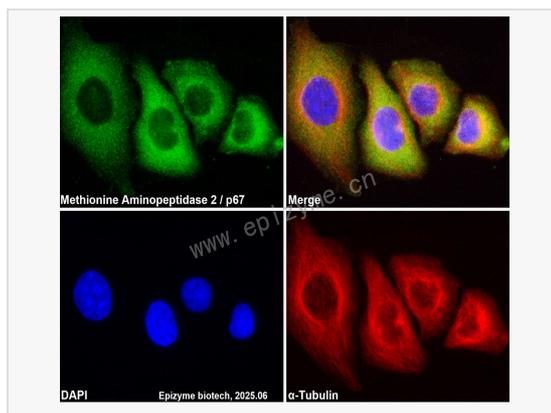
Catalog # R010218

Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	41K76M84
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Methionine Aminopeptidase 2/p67
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Methionine Aminopeptidase 2 Rabbit mAb [41K76M84] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	A930035J23Rik; AI047573; AL024412; Amp2; 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; MAP2_HUMAN; MetAP 2; Metap2; Methionine aminopeptidase 2; Methionyl aminopeptidase 2; MGC102452; MGC127390; MGC53792; MNPEP; p67; p67eIF2; Peptidase M; Peptidase M2.
Calculated MW	Calculated MW: 53 kDa; Observed MW: 63 kDa
Uniprot ID	P50579
Gene ID	10988
Background	The protein encoded by this gene is a member of the methionyl aminopeptidase family. The encoded 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 proteins. 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. Inhibitors of this gene have also been shown to be effective for the treatment of obesity. A pseudogene of this gene is located on chromosome 2. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2015]
Cellular Location	Cytoplasm. About 30% of expressed METAP2 associates with polysomes.



Immunofluorescence - Anti-Methionine Aminopeptidase 2 Rabbit mAb [41K76M84]

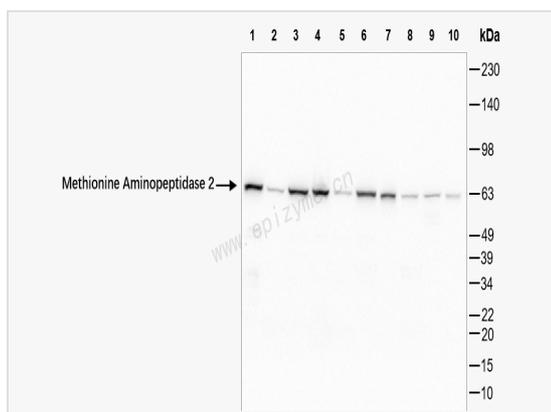
Sample: HeLa cells

The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

Primary antibodies: R010218 at 1:100 dilution and α -tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution

Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)

Nuclei were stained with DAPI (shown in blue).



Western Blot - Anti-Methionine Aminopeptidase 2 Rabbit mAb [41K76M84]

All lanes: R010218 at 1:1,000 dilution

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2: Huh1 (Human hepatocarcinoma epithelial cell) whole cell lysates

Lane 3: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates

Lane 4: 293T (Human embryonic kidney cell) whole cell lysates

Lane 5: U87 (Human malignant glioblastoma epithelial cells) whole cell lysates

Lane 6: SH-SY5Y (Human neuroblastoma epithelial cell) whole cell lysates

Lane 7: Mouse heart whole tissue lysates

Lane 8: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates

Lane 9: Rat muscle whole tissue lysates

Lane 10: Rat brain whole tissue lysates

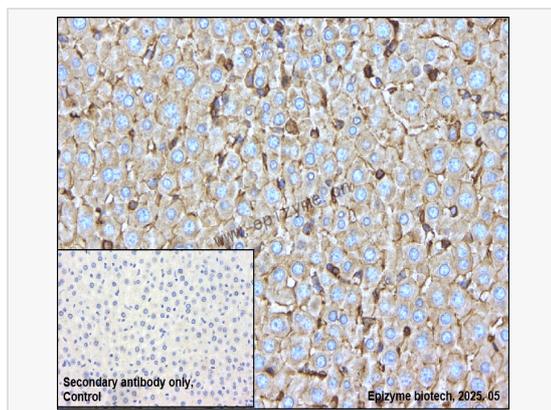
Lysates/proteins at 10 μ g per lane.

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 53 kDa

Observed band size: 63 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-Methionine Aminopeptidase 2 Rabbit mAb [41K76M84]

Sample: Paraformaldehyde-fixed, paraffin embedded rat liver tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

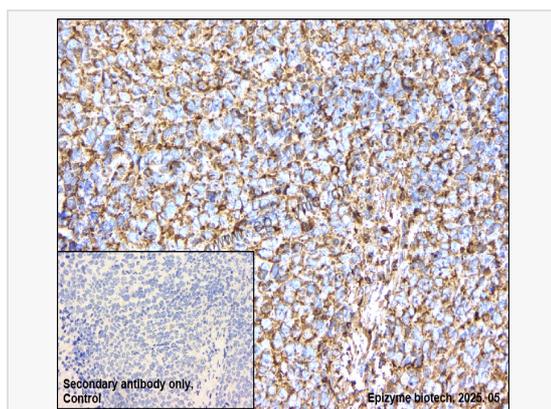
Primary antibody: R010218 at 1:200 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-Methionine Aminopeptidase 2 Rabbit mAb [41K76M84]

Sample: Paraformaldehyde-fixed, paraffin embedded human ovarian cancer tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

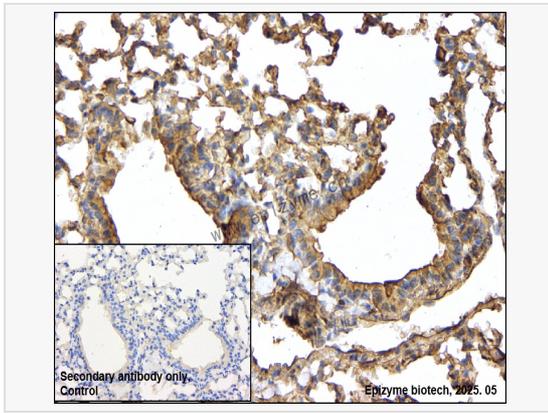
Primary antibody: R010218 at 1:200 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-Methionine Aminopeptidase 2 Rabbit mAb [41K76M84]
Sample: Paraformaldehyde-fixed, paraffin embedded mouse lung tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R010218 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.