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KD-Validated Anti-Methionyl aminopeptidase 2 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1257

Specification

KD-Validated Anti-Methionyl aminopeptidase 2 Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	P50579
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 53 kDa , observed, 67 kDa KDa**
Gene Name	**METAP2**
Aliases	**METAP2; Methionyl Aminopeptidase 2; MNPEP; MAP2; P67; Initiation Factor 2-Associated 67 KDa Glycoprotein; Methionine Aminopeptidase 2; Peptidase M; P67eIF2; Testicular Tissue Protein Li 17; EIF-2-Associated P67 Homolog; Peptidase M 2; EC 3.4.11.18; P67EIF2; MetAP 2; MAP 2**
Immunogen	**A synthesized peptide derived from human Methionine Aminopeptidase 2**

KD-Validated Anti-Methionyl aminopeptidase 2 Rabbit Monoclonal Antibody - 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}, 3.4.11.18 {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}, MNPEP, P67EIF2

KD-Validated Anti-Methionyl aminopeptidase 2 Rabbit Monoclonal Antibody - 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.

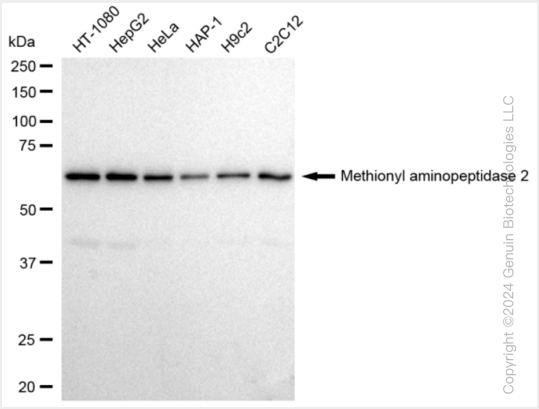
Cellular Location
Cytoplasm {ECO:0000255|HAMAP-Rule:MF_03175, ECO:0000269|PubMed:21537465}. Note=About 30% of expressed METAP2 associates with polysomes

KD-Validated Anti-Methionyl aminopeptidase 2 Rabbit Monoclonal Antibody - Protocols

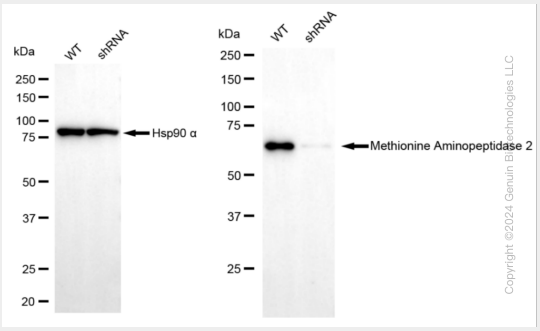
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-Methionyl aminopeptidase 2 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-Methionyl aminopeptidase 2 antibody (Cat#AGI1257). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Methionyl aminopeptidase 2 antibody (Cat#AGI1257, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-Methionyl aminopeptidase 2 antibody (Cat#AGI1257).

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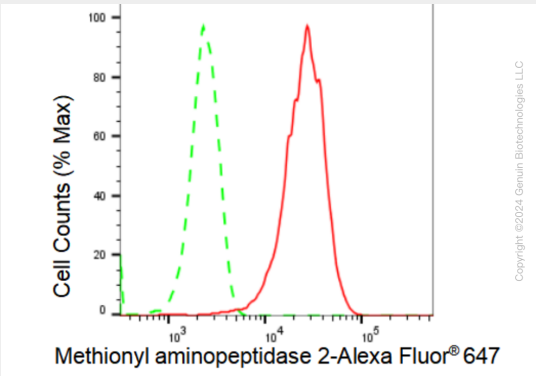
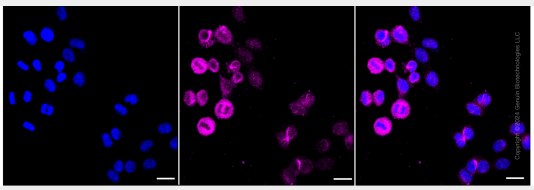
Methionyl aminopeptidase 2 expression in wild type (WT) and methionyl aminopeptidase 2 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-Methionyl aminopeptidase 2 antibody (Cat#AGI1257, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Methionyl aminopeptidase 2 expression in HepG2 cells using Methionyl aminopeptidase 2 antibody (Cat#AGI1257, 1:2,000). Green, isotype control; red, Methionyl aminopeptidase 2.



Immunocytochemical staining of HepG2 cells with Methionyl aminopeptidase 2 antibody (Cat#AGI1257, 1:1,000). Nuclei were stained blue with DAPI; Methionyl aminopeptidase 2 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar: 20 µm.