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KD-Validated Anti-Methylthioadenosine phosphorylase Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1455

Specification

KD-Validated Anti-Methylthioadenosine phosphorylase Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	Q13126
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 31 kDa , observed, 29 kDa KDa**
Gene Name	**MTAP**
Aliases	**MTAP; Methylthioadenosine Phosphorylase; MSAP; S-Methyl-5'-Thioadenosine Phosphorylase; 5'-Methylthioadenosine Phosphorylase; MTA Phosphorylase; MTAPase; C86fus; Epididymis Secretory Sperm Binding Protein; Epididymis Luminal Protein 249; MeSAdo Phosphorylase; EC 2.4.2.28; HEL-249; DMSMFH; C86FUS; DMSFH; LGMBF; BDMF**
Immunogen	**A synthesized peptide derived from human MTAP**

KD-Validated Anti-Methylthioadenosine phosphorylase Rabbit Monoclonal Antibody - Additional Information

Gene ID	**4507**

Other Names
S-methyl-5'-thioadenosine phosphorylase {ECO:0000255|HAMAP-Rule:MF_03155}, 2.4.2.28 {ECO:0000255|HAMAP-Rule:MF_03155}, 5'-methylthioadenosine phosphorylase {ECO:0000255|HAMAP-Rule:MF_03155}, MTA phosphorylase {ECO:0000255|HAMAP-Rule:MF_03155}, MTAP {ECO:0000255|HAMAP-Rule:MF_03155}, MTAPase {ECO:0000255|HAMAP-Rule:MF_03155}, MTAP {ECO:0000255|HAMAP-Rule:MF_03155}, MSAP

KD-Validated Anti-Methylthioadenosine phosphorylase Rabbit Monoclonal Antibody - Protein Information

Name MTAP {ECO:0000255|HAMAP-Rule:MF_03155}

Synonyms MSAP

Function
Catalyzes the reversible phosphorylation of S-methyl-5'- thioadenosine (MTA) to adenine and 5-methylthioribose-1-phosphate. Involved in the breakdown of MTA, a major by-product of

polyamine biosynthesis. Responsible for the first step in the methionine salvage pathway after MTA has been generated from S-adenosylmethionine. Has broad substrate specificity with 6-aminopurine nucleosides as preferred substrates.

Cellular Location
Cytoplasm. Nucleus {ECO:0000255|HAMAP- Rule:MF_03155}

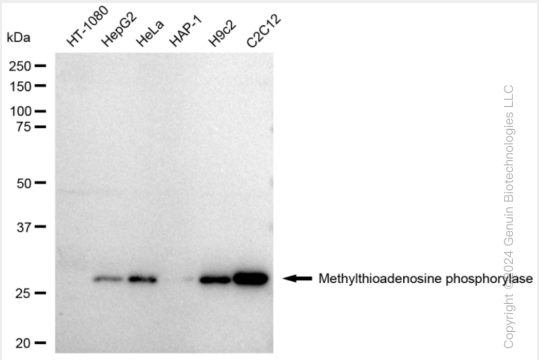
Tissue Location
Ubiquitously expressed.

KD-Validated Anti-Methylthioadenosine phosphorylase Rabbit Monoclonal Antibody - Protocols

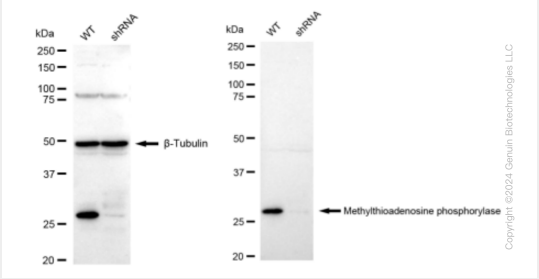
Provided below are standard protocols that you may find useful for product applications.

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

KD-Validated Anti-Methylthioadenosine phosphorylase Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-Methylthioadenosine phosphorylase antibody (Cat#AGI1455). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Methylthioadenosine phosphorylase antibody (Cat#AGI1455, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-Methylthioadenosine phosphorylase antibody

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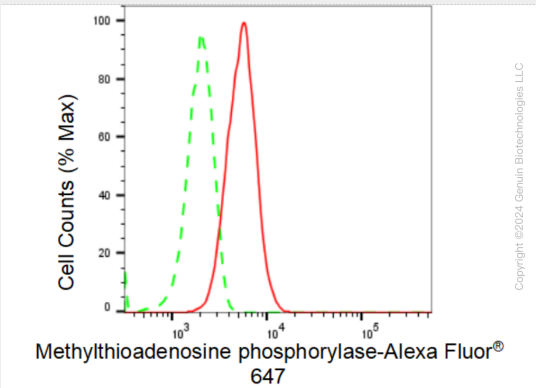
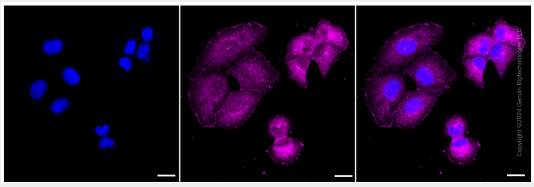
(Cat#AGI1455). Methylthioadenosine phosphorylase expression in wild type (WT) and Methylthioadenosine phosphorylase shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-Methylthioadenosine phosphorylase antibody (Cat#AGI1455, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Methylthioadenosine phosphorylase expression in HT-1080 cells using Methylthioadenosine phosphorylase antibody (Cat#AGI1455, 1:2,000). Green, isotype control; red, Methylthioadenosine phosphorylase.



Immunocytochemical staining of HT-1080 cells with Methylthioadenosine phosphorylase antibody (Cat#AGI1455, 1:1,000). Nuclei were stained blue with DAPI; Methylthioadenosine phosphorylase was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.