

L-Methionine γ -Lase Polyclonal Antibody
Purified Rabbit Polyclonal Antibody
Catalog # ABV11674**Specification**

L-Methionine γ -Lase Polyclonal Antibody - Product Information

Application	WB
Primary Accession	P13254
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	42627

L-Methionine γ -Lase Polyclonal Antibody - Additional Information**Other Names**

Methionine gamma-lyase, L-methioninase, mdeA

Target/Specificity

L-Methionine γ -Lase

Formulation

100 μ g (0.5 mg/ml) of antibody in PBS pH 7.2, 0.01 % BSA, 0.03 % ProClin®, and 50 % glycerol.

Handling

The antibody solution should be gently mixed before use.

Background Descriptions**Precautions**

L-Methionine γ -Lase Polyclonal Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

L-Methionine γ -Lase Polyclonal Antibody - Protein Information

Name mdeA {ECO:0000312|EMBL:BAA20553.1}

Function

Catalyzes the alpha,gamma-elimination of L-methionine to produce methanethiol, 2-oxobutanoate and ammonia (PubMed:8586629, PubMed:6742420). Is involved in L-methionine catabolism (PubMed:9190812). In fact, shows a multicatalytic function since it also catalyzes gamma-replacement of L-methionine with thiol compounds, alpha,gamma-elimination and gamma-replacement reactions of L- homocysteine and its S-substituted derivatives, O-substituted-L- homoserines and DL-selenomethionine, and, to a

lesser extent, alpha,beta-elimination and beta-replacement reactions of L-cysteine, S-methyl-L-cysteine, and O-acetyl-L-serine (PubMed:6742420, PubMed:22785484). Also catalyzes deamination and gamma-addition reactions of L-vinylglycine (PubMed:6742420). Thus, the enzyme is able to cleave C-S, C-Se, and C-O bonds of sulfur, selenium, and oxygen amino acids, respectively (PubMed:6742420, PubMed:22785484).

L-Methionine γ -Lase Polyclonal 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 Cytometry](#)
- [Cell Culture](#)

L-Methionine γ -Lase Polyclonal Antibody - Images

L-Methionine γ -Lase Polyclonal Antibody - Background

Methionine gamma-lyase from *Pseudomonas putida* is a PLP-dependent enzyme which plays a central role in sulfur amino acid metabolism. METase catalyzes the α , γ -elimination of methionine to α -ketobutyrate, methanethiol, and ammonia. METase also catalyzes the α , γ -elimination of other sulfur containing amino acids, such as homocysteine, cysteine. Because of its ability to deplete methionine, METase has been considered as a viable component of cancer therapeutics against methionine-dependent tumor cells. METase has also been utilized to design drug targets for the infectious diseases caused by parasitic protozoa and anaerobic periodontal bacteria.