

AMT Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6739a**Specification**

AMT Antibody (N-term) - Product Information

Application	FC, IHC-P, WB,E
Primary Accession	P48728
Other Accession	Q8CFA2
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	43946
Antigen Region	19-45

AMT Antibody (N-term) - Additional Information**Gene ID** 275**Other Names**

Aminomethyltransferase, mitochondrial, Glycine cleavage system T protein, GCVT, AMT, GCST

Target/Specificity

This AMT antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 19-45 amino acids from the N-terminal region of human AMT.

Dilution

FC~~1:10~50

IHC-P~~1:50~100

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

AMT Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

AMT Antibody (N-term) - Protein Information

Name AMT ([HGNC:473](#))

Function The glycine cleavage system catalyzes the degradation of glycine.

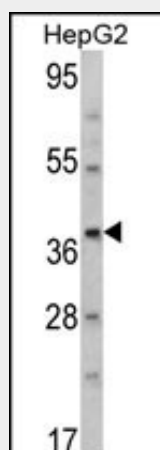
Cellular Location
Mitochondrion.

AMT Antibody (N-term) - Protocols

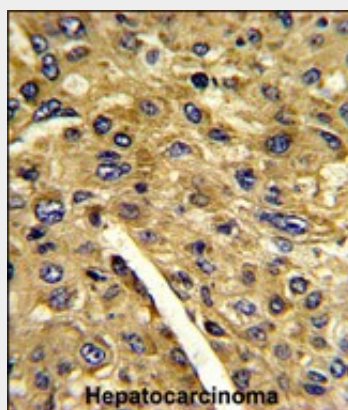
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

AMT Antibody (N-term) - Images

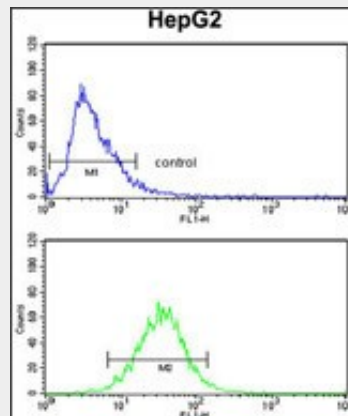


Western blot analysis of AMT Antibody (N-term) (Cat. #AP6739a) in HepG2 cell line lysates (35ug/lane). AMT (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human hepatocarcinoma reacted with AMT Antibody

(N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



AMT Antibody (N-term) (Cat.#AP6739a) flow cytometry analysis of HepG2 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

AMT Antibody (N-term) - Background

The enzyme system for cleavage of glycine (glycine cleavage system; EC 2.1.2.10), which is confined to the mitochondria, is composed of 4 protein components: P protein (a pyridoxal phosphate-dependent glycine decarboxylase; MIM 238300), H protein (a lipoic acid-containing protein; MIM 238330), T protein (a tetrahydrofolate-requiring enzyme), and L protein (a lipoamide dehydrogenase; MIM 238331). Glycine encephalopathy (GCE; MIM 605899) may be due to a defect in any one of these enzymes.

AMT Antibody (N-term) - References

Nanao,K., Genomics 19 (1), 27-30 (1994)