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AMT Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6739a

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	P48728
Other Accession	Q8CFA2
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB19704
Calculated MW	43946
Antigen Region	19-45

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	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 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.

Protein Information

Name	AMT (HGNC:473)
Function	The glycine cleavage system catalyzes the degradation of glycine.

Cellular Location Mitochondrion.

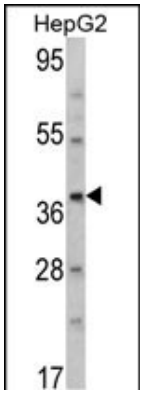
Background

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.

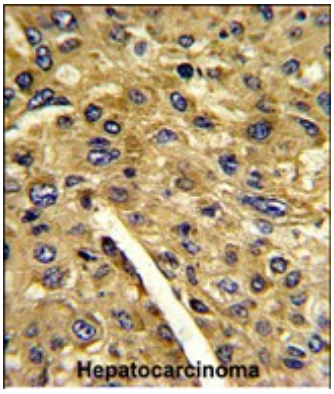
References

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

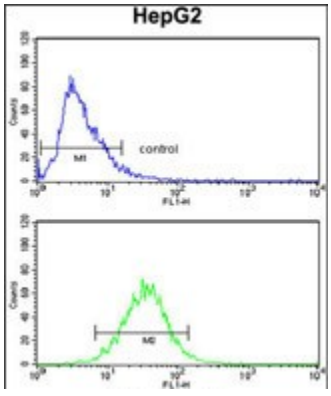
Images



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.