

HNMT Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1442A**Specification**

HNMT Antibody (N-term) - Product Information

Application	IHC-P, WB, IF, E
Primary Accession	P50135
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	33295
Antigen Region	29-58

HNMT Antibody (N-term) - Additional Information**Gene ID** 3176**Other Names**

Histamine N-methyltransferase, HMT, HNMT

Target/Specificity

This HNMT antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 29-58 amino acids from the N-terminal region of human HNMT.

Dilution

IHC-P~~1:10~50

WB~~1:1000

IF~~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

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

HNMT Antibody (N-term) - Protein Information**Name** HNMT

Function Inactivates histamine by N-methylation. Plays an important role in degrading histamine and in regulating the airway response to histamine.

Cellular Location

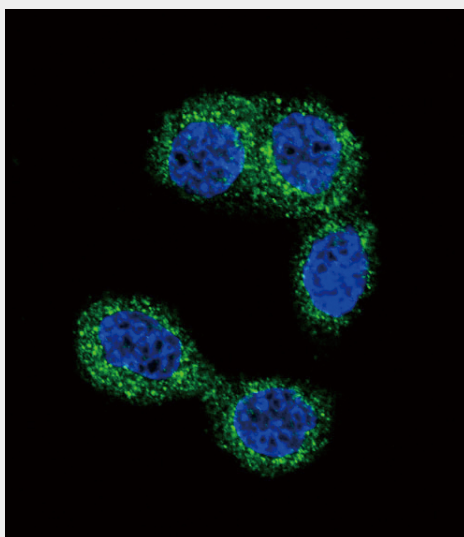
Cytoplasm.

HNMT Antibody (N-term) - Protocols

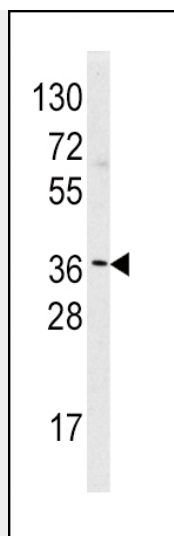
Provided below are standard protocols that you may find useful for product applications.

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

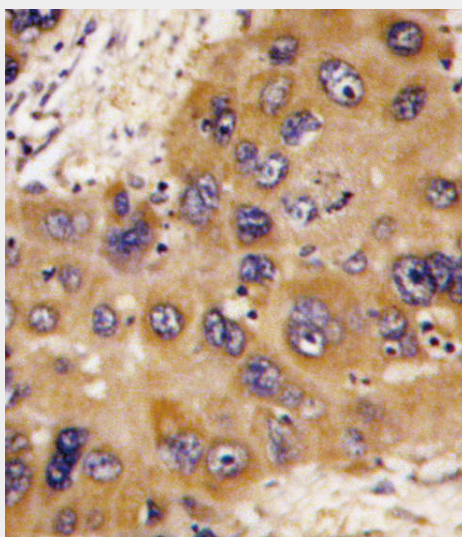
HNMT Antibody (N-term) - Images



Confocal immunofluorescent analysis of HNMT Antibody (N-term)(Cat#AP1442a) with HeLa cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green).DAPI was used to stain the cell nuclear (blue).



Western blot analysis of HNMT Antibody (N-term) (Cat# AP1442a) in HeLa cell line lysates (35ug/lane). HNMT (arrow) was detected using the purified polyclonal antibody.



Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with HNMT antibody (N-term) (Cat.#AP1442a), 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.

HNMT Antibody (N-term) - Background

In mammals, histamine is metabolized by two major pathways: N(tau)-methylation via histamine N-methyltransferase and oxidative deamination via diamine oxidase. HNMT is the first enzyme which is found in the cytosol and uses S-adenosyl-L-methionine as the methyl donor. In the mammalian brain, the neurotransmitter activity of histamine is controlled by N(tau)-methylation as diamine oxidase is not found in the central nervous system. A common genetic polymorphism affects the activity levels of this gene product in red blood cells.

HNMT Antibody (N-term) - References

Aksoy, S., et al., Biochem. Biophys. Res. Commun. 219(2):548-554 (1996).

HNMT Antibody (N-term) - Citations

- [Histamine can be Formed and Degraded in the Human and Mouse Heart](#)

