

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

---

**HNMT Antibody (N-term) - Product Information**

Application	IF, WB, IHC-P,E
Primary Accession	<a href="#">P50135</a>
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**

IF~~1:10~50  
WB~~1:1000  
IHC-P~~1:10~50

**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**

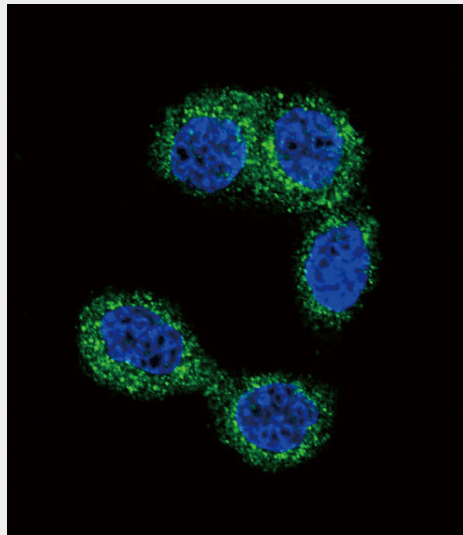
Cytoplasm.

#### **HNMT Antibody (N-term) - Protocols**

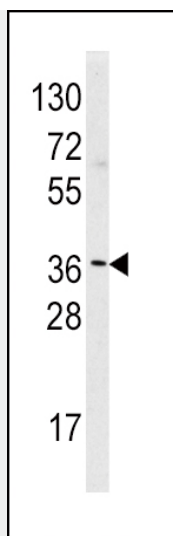
Provided below are standard protocols that you may find useful for product applications.

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

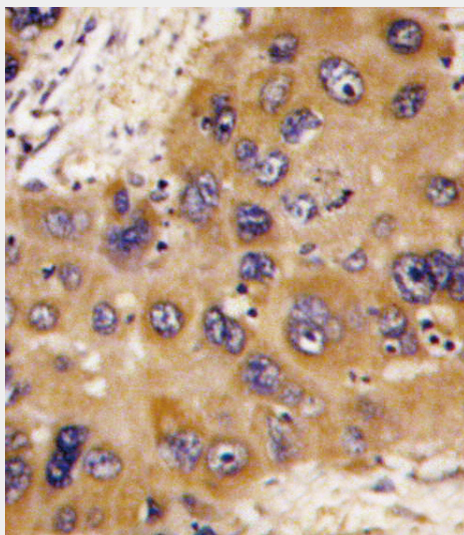
#### **HNMT Antibody (N-term) - Images**



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](#)

