10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

HNMT Antibody

Mouse Monoclonal Antibody (Mab)
Catalog # AM2023b

Product Information

Application	WB, E
Primary Accession	P50135
Other Accession	NP_008826.1
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Names	432CT31.4.2
Calculated MW	33295

Additional Information

Gene ID	3176
Other Names	Histamine N-methyltransferase, HMT, HNMT
Target/Specificity	Purified His-tagged HNMT protein(Fragment) was used to produced this monoclonal antibody.
Dilution	WB~~1:100~1000 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	HNMT Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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.

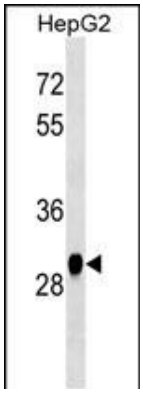
Background

In mammals, histamine is metabolized by two major pathways: N(tau)-methylation via histamine N-methyltransferase and oxidative deamination via diamine oxidase. This gene encodes 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. Multiple alternatively spliced transcript variants that encode different proteins have been found for this gene.

References

Stevenson, J., et al. Am J Psychiatry 167(9):1108-1115(2010)
Ruano, G., et al. Pharmacogenomics 11(7):959-971(2010)
Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Schuurhof, A., et al. Pediatr. Pulmonol. 45(6):608-613(2010)
Davila, S., et al. Genes Immun. 11(3):232-238(2010)

Images



HNMT Antibody (Cat. #AM2023b) western blot analysis in HepG2 cell line lysates (35µg/lane).This demonstrates the HNMT antibody detected the HNMT protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.