

## Anti-HNMT Antibody (7C164)

### Product Details

|               |              |
|---------------|--------------|
| Ig Type:      | Rabbit IgG   |
| Reactivity:   | Human        |
| Conjugation:  | Unconjugated |
| Clone:        | 7C164        |
| Purification: | Protein A    |

### Applications

|                    |   |
|--------------------|---|
| Verified Activity: | <p>1. Anti-HNMT rabbit monoclonal antibody at 1:500 dilution.</p> <ul style="list-style-type: none"><li>-Lane A: HepG2 Whole Cell lysate.</li><li>-Lysates/proteins at 30 µg per lane.</li><li>-Secondary</li><li>-Goat Anti-Rabbit IgG H&amp;L (Dylight800) at 1/10000 dilution.</li><li>-Developed using the Odyssey technique.</li><li>-Performed under reducing conditions.</li><li>-Predicted band size:33 kDa.</li><li>-Observed band size:33 kDa.</li></ul> <p>2. HNMT was immunoprecipitated using:</p> <ul style="list-style-type: none"><li>-Lane A:0.5 mg HepG2 Whole Cell Lysate.</li><li>-Lane B:0.5 mg Hela Whole Cell Lysate.</li><li>-2 µL anti-HNMT rabbit monoclonal antibody and 15 µL of 50 % Protein G agarose.</li><li>-Primary antibody:</li><li>-Anti-HNMT rabbit monoclonal antibody, at 1:200 dilution.</li><li>-Secondary antibody:</li><li>-Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution.</li><li>-Developed using the odyssey technique.</li><li>-Performed under reducing conditions.</li><li>-Predicted band size: 33 kDa.</li><li>-Observed band size: 33 kDa</li></ul> |
| Application:       | ELISA,IP,WB   |
| Recommended        | WB: 1:500-1:2000; ELISA: 1:5000-1:10000; IP: 0.5-2 µL/mg of lysate  |

### Properties

|                      |  |
|----------------------|--|
| Stability & Storage: | Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free. |
| Shipping:            | Shipping with blue ice.  |

### Antigen Details

Immunogen: Recombinant Protein: Human HNMT protein (TMPY-02340)  
Antigen Species: Human  
Synonyms: histamine N-methyltransferase;HNMT-S2;HMT;HNMT-S1  
Biology Area: Neurotransmitter Associated Enzymes

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### Research Background

HNMT (Histamine N-methyltransferase) is a Protein Coding gene. This gene encodes the first enzyme which is found in the cytosol and uses S-adenosyl-L-methionine as the methyl donor. HNMT, the major enzyme for the metabolism of histamine in the rat brain, is potently inhibited by 9-amino-1,2,3,4-tetrahydroacridine (tacrine). Methylation is an important pathway in the biotransformation of many drugs, neurotransmitters, and xenobiotic compounds. Histamine N-methyltransferase (HNMT) catalyzes the N tau-methylation of histamine and structurally related compounds. Histamine N-methyltransferase (HNMT) is believed to be the sole pathway for termination of the neurotransmitter action of histamine in the mammalian brain. That highlights the importance of the inclusion of HNMT for genetic testing of individuals presenting with intellectual disability.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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