

For Research Use Only

# N4-acetylcytidine Monoclonal antibody



Catalog Number: 68498-1-Ig

## Basic Information

<b>Catalog Number:</b> 68498-1-Ig	<b>GenBank Accession Number:</b> GeneID (NCBI):	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 1000 µg/ml by Nanodrop;	<b>Full Name:</b>	<b>CloneNo.:</b> 3C2C2
<b>Source:</b> Mouse		<b>Recommended Dilutions:</b> Dot Blot 1:1000-1:4000
<b>Isotype:</b> IgG1		

## Applications

<b>Tested Applications:</b> Dot Blot, ELISA	<b>Positive Controls:</b> Dot Blot : RNA isolate HeLa cells,
<b>Species Specificity:</b> Human, mouse, rat	

## Background Information

N4-Acetylcytidine, CasNo. 3768-18-1, is a modified nucleoside and endogenous urinary nucleoside product of the degradation of tRNA. N4-Acetylcytidine is a biological marker for various cancers with elevated concentrations present in urine. N4-Acetylcytidine is also a partially protected cytidine and therefore can be used as a synthetic building block to prepare further derivatized nucleosides such as 2',3'-dideoxycytidine.

## Storage

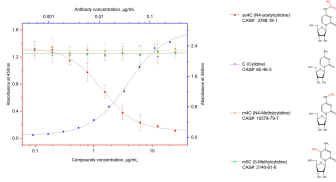
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

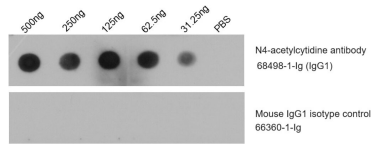
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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## Selected Validation Data



Indirect ELISA and competitive ELISA results show that this antibody is specific to ac4C (N4-acetylcytidine). Indirect ELISA (blue curve, refer to top X-right Y axis) was performed by coating BSA conjugated ac4C at 50ng/well followed by blocking with 5% non fat milk. Serial diluted primary antibody was added to the plates and incubated at 37°C. HRP-goat anti-mouse was used for detection. Competitive ELISA was performed similarly



Total RNA was isolated from HeLa cell line and was dotted to NC membrane at different amount as indicated above the dots. The membrane was blocked with 5% milk and blotted with N4-acetylcytidine antibody 68498-1-Ig at 1:2000 followed by incubation of HRP-goat anti-mouse secondary antibody. Signal was developed by ECL substrate. A parallel dot blot was performed using Mouse IgG1 isotype control Monoclonal antibody