



Datasheet for ABIN6263520  
**anti-NAT10 antibody (Internal Region)**



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2 Images

Overview

Quantity:	100 µL
Target:	NAT10
Binding Specificity:	Internal Region
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NAT10 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	A synthesized peptide derived from human NAT10, corresponding to a region within the internal amino acids.
Isotype:	IgG
Specificity:	NAT10 Antibody detects endogenous levels of total NAT10.
Predicted Reactivity:	Pig,Zebrafish,Bovine,Horse,Sheep,Rabbit,Dog,Chicken,Xenopus
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).

Target Details

Target:	NAT10
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## Target Details

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Alternative Name: NAT10 ([NAT10 Products](#))

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Background: Description: RNA cytidine acetyltransferase with specificity toward both 18S rRNA and tRNAs (PubMed:25411247, PubMed:25653167). Catalyzes the formation of N4-acetylcytidine (ac4C) at position 1842 in 18S rRNA (PubMed:25411247). May also catalyze the formation of ac4C at position 1337 in 18S rRNA (By similarity). Required for early nucleolar cleavages of precursor rRNA at sites A0, A1 and A2 during 18S rRNA synthesis (PubMed:25411247, PubMed:25653167). Catalyzes the formation of ac4C in serine and leucine tRNAs (By similarity). Requires the tRNA-binding adapter protein THUMBD1 for full tRNA acetyltransferase activity but not for 18S rRNA acetylation (PubMed:25653167). Can acetylate both histones and microtubules (PubMed:14592445, PubMed:17631499, PubMed:19303003). Histone acetylation may regulate transcription and mitotic chromosome de-condensation (PubMed:17631499). Activates telomerase activity by stimulating the transcription of TERT, and may also regulate telomerase function by affecting the balance of telomerase subunit assembly, disassembly, and localization (PubMed:14592445, PubMed:18082603). Acetylates alpha-tubulin, which may affect microtubule stability and cell division (PubMed:19303003).

Gene: NAT10

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Molecular Weight: 116 kDa

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Gene ID: 55226

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UniProt: [Q9H0A0](#)

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## Application Details

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Application Notes: WB 1:500-1:2000, IHC 1:50-1:200

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Concentration: 1 mg/mL

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Buffer: Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.

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Preservative: Sodium azide

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Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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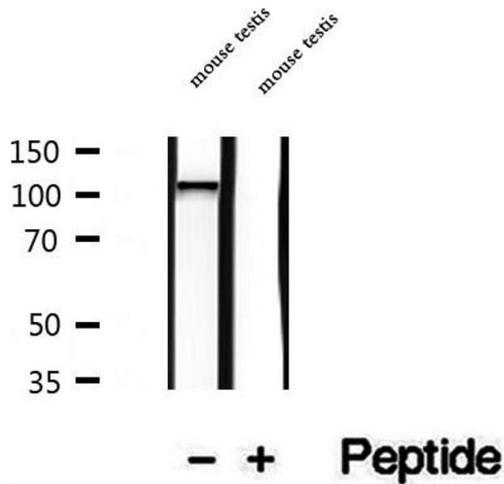
## Handling

Storage: -20 °C

Storage Comment: Store at -20 °C. Stable for 12 months from date of receipt.

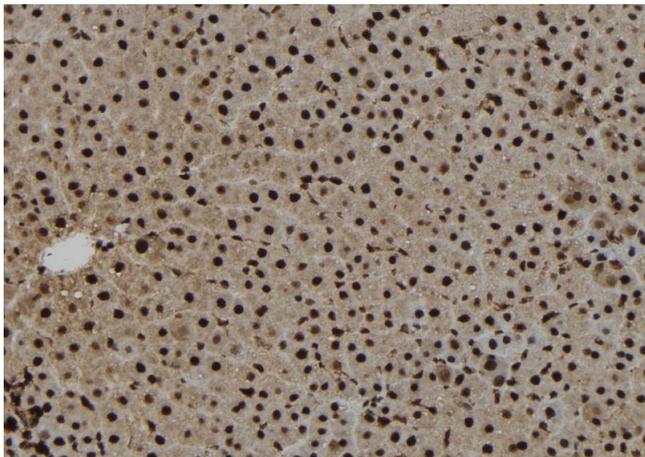
Expiry Date: 12 months

## Images



### Western Blotting

**Image 1.** Western blot analysis of extracts of mouse testis tissue, using NAT10 antibody.



### Immunohistochemistry

**Image 2.** ABIN6273271 at 1/100 staining Rat liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.