

Datasheet for ABIN387998
anti-SET7 antibody (C-Term)



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1 Image

Overview

Quantity:	400 µL
Target:	SET7 (SETD8P1)
Binding Specificity:	AA 289-317, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SET7 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	This SET7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 289-317 amino acids from the C-terminal region of human SET7.
Clone:	RB5744
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	SET7 (SETD8P1)
Alternative Name:	SET7 (SETD8P1 Products)

Target Details

Background: Histone methyltransferases (HMTases) selectively methylate evolutionarily conserved arginine or lysine residues, primarily in the N-terminal tails of histones H3 and H4. Signal transduction pathways affecting the N-terminal tails of histones lead to a number of post-translational modifications including acetylation, phosphorylation, poly(ADP-ribosylation), ubiquitination and methylation. These modifications play critical roles in regulating chromatin structure and gene expression. Set7/9 is a histone specific HMTase that methylates histone H3 lysine 4. Set7/9 transfers methyl groups to lysine 4 of histone H3 in complex with S-adenosyl-L-methionine. In yeast, H4-K20 methylation does not have any apparent role in the regulation of gene expression or heterochromatin function, rather it appears to play a role in DNA damage response. Loss of Set9 activity or mutation of H4-K20 markedly impairs yeast cell survival after genotoxic challenge and compromises the ability of cells to maintain checkpoint mediated cell cycle arrest. Genetic experiments link Set9 to Crb2, a homolog of the mammalian checkpoint protein 53BP1, and the enzyme is required for Crb2 localization to sites of DNA damage.

Molecular Weight: 40721

Gene ID: 80854

NCBI Accession: [NP_085151](#)

UniProt: [Q8WTS6](#)

Application Details

Application Notes: WB: 1:1000

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

Preservative: Sodium azide

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

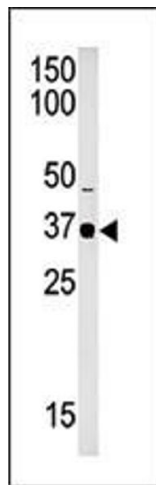
Storage: 4 °C, -20 °C

Storage Comment: Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.

Handling

Expiry Date: 6 months

Images



Western Blotting

Image 1. Western blot analysis of anti-SET7 Pab (ABIN387998 and ABIN2845290) in mouse brain tissue lysate (35 µg/lane). SET7 (arrow) was detected using the purified Pab.