

Datasheet for ABIN356694
anti-SETD7 antibody (Middle Region)



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2 Images

Overview

Quantity:	0.4 mL
Target:	SETD7
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SETD7 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	This SET7/9 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the center region of human SET9.
Isotype:	Ig Fraction
Specificity:	This antibody is specific to SET7 (SET9) (Center).
Purification:	Protein G Chromatography, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS.

Target Details

Target:	SETD7
Alternative Name:	SETD7 / SET9 (SETD7 Products)

Target Details

Background: Similar to acetylation and phosphorylation, histone methylation at the N-terminal tail has emerged as an important role in regulating chromatin dynamics and gene activity. Histone methylation occurs on arginine and lysine residues and is catalyzed by two families of proteins, the protein arginine methyltransferase family and the SET-domain-containing methyltransferase family. Five members have been identified in the arginine methyltransferase family. About 27 are grouped into the SET-domain family, and another 17 make up the PR domain family that is related to the SET domain family. The retinoblastoma protein-interacting zinc finger gene RIZ1 is a tumor suppressor gene and a FOUNDING member of the PR domain family. RIZ1 inactivation is commonly found in many types of human cancers and occurs through loss of mRNA expression, frame shift mutation, chromosomal deletion, and missense mutation. RIZ1 is also a tumor susceptibility gene in mice. The loss of RIZ1 mRNA in human cancers was shown to associate with DNA methylation of its promoter CpG island. Methylation of the RIZ1 promoter strongly correlated with lost or decreased RIZ1 mRNA expression in breast, liver, colon, and lung cancer cell lines as well as in liver cancer tissues. Synonyms: H3-K4-HMTase SETD7, Histone H3-K4 methyltransferase SETD7, Histone-lysine N-methyltransferase SETD7, KIAA1717, KMT7, Lysine N-methyltransferase 7, SET domain-containing protein 7, SET7, SET7/9

Gene ID: 80854, 9606

UniProt: [Q8WTS6](#)

Application Details

Application Notes: ELISA: 1/1,000. Western Blot: 1/100-1/500. Immunohistochemistry: 1/50-1/100.
Other applications not tested.
Optimal dilutions are dependent on conditions and should be determined by the user.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 0.25 mg/mL

Buffer: PBS containing 0.09 % (W/V) Sodium Azide as preservative.

Preservative: Sodium azide

Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.

Images

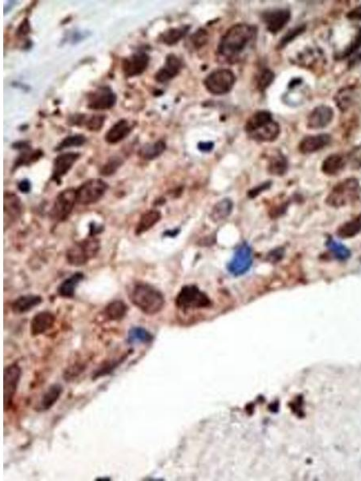


Image 1.

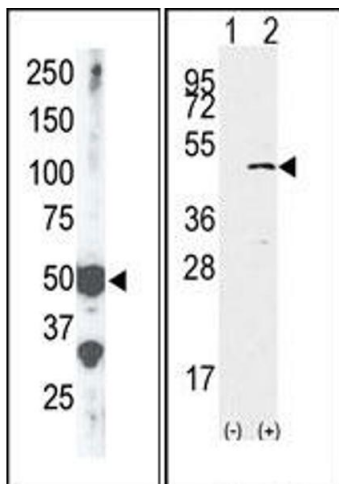


Image 2.