

Datasheet for ABIN6147651  
**anti-SETD7 antibody (AA 1-366)**[Go to Product page](#)

2 Images

1 Publication

## Overview

Quantity:	100 µL
Target:	SETD7
Binding Specificity:	AA 1-366
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SETD7 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

## Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-366 of human SETD7 (NP_085151.1).
Sequence:	MDSDDMEMVEE AVEGHLDDDG LPHGFCTVTY SSTDRFEGNF VHGEKNGRGK FFFFDGSTLE GYVVDALQG QGVYTYEDGG VLQGTYYVDGE LNGPAQEYDT DGRILFKGQY KDNIRHGVWCW IYYPDGGSLV GEVNEDGEMT GEKIAYVYPD ERTALYGKFI DGEMIEGKLA TLMSTEEGRP HFELMPGNSV YHFDKSTSSC ISTNALLPDP YESERVYVAE SLISSAGEGL FSKVAVGPNT VMSFYNGVRI THQEVDSRDW ALNGNTLSLD EETVIDVPEP YNHVSKYCAS LGHKANHSFT PNCIYDMFVH PRFGPIKCIR TLRAVEADEE LTVAYGYDHS PPGKSGPEAP EWYQVELKAF QATQQK
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat

## Product Details

Characteristics: Polyclonal Antibodies

## Target Details

Target: SETD7

Alternative Name: SETD7 ([SETD7 Products](#))

Background: Histone methyltransferase that specifically monomethylates 'Lys-4' of histone H3. H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation. Plays a central role in the transcriptional activation of genes such as collagenase or insulin. Recruited by IPF1/PDX-1 to the insulin promoter, leading to activate transcription. Has also methyltransferase activity toward non-histone proteins such as p53/TP53, TAF10, and possibly TAF7 by recognizing and binding the [KR]-[STA]-K in substrate proteins. Monomethylates 'Lys-189' of TAF10, leading to increase the affinity of TAF10 for RNA polymerase II. Monomethylates 'Lys-372' of p53/TP53, stabilizing p53/TP53 and increasing p53/TP53-mediated transcriptional activation.,SETD7,KMT7,SET7,SET7/9,SET9,Epigenetics & Nuclear Signaling,Chromatin Modifying Enzymes,Methylation,SETD7

Molecular Weight: 40 kDa

Gene ID: 80854

UniProt: [Q8WTS6](#)

## Application Details

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

Comment: HIGH QUALITY

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.

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: -20 °C

Handling

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

Publications

Product cited in: Yin, Jia, Miron, Long, Xu, Wei, Wu, Zhang, Li: "Setd7 and its contribution to Boron-induced bone regeneration in Boron-mesoporous bioactive glass scaffolds." in: **Acta biomaterialia**, Vol. 73, pp. 522-530, (2018) ([PubMed](#)).

Images

Western Blotting

**Image 1.** Infiltration of Cells and osteogenic differentiation MSCs around BCP dependent on T cells. (A) H&E staining showed cells infiltration was significantly reduced in the T-Del group. (B-D) IHC staining of CD146 (B), Runx2 (C), Col-1A1 (D) were detected and quantified by IHC staining. Positive expressions were significantly reduced in the T-Del group. (n=4) \*\*\*\*P < 0.0001. - figure provided by CiteAb. Source: PMID32206106

Western Blotting

**Image 2.** Western blot analysis of extracts of various cell lines, using SETD7 antibody.

