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Datasheet for ABIN6147651 anti-SETD7 antibody (AA 1-366)

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: | human SETD7 (NP_085151.1).MDSDDEMVEE AVEGHLDDDG LPHGFCTVTY SSTDRFEGNF VHGEKNGRGK FFFFDGSTLEGYYVDDALQG QGVYTYEDGG VLQGTYVDGE LNGPAQEYDT DGRLIFKGQY KDNIRHGVCWIYYPDGGSLV GEVNEDGEMT GEKIAYVYPD ERTALYGKFI DGEMIEGKLA TLMSTEEGRPHFELMPGNSV YHFDKSTSSC ISTNALLPDP YESERVYVAE SLISSAGEGL FSKVAVGPNTVMSFYNGVRI THQEVDSRDW ALNGNTLSLD EETVIDVPEP YNHVSKYCAS LGHKANHSFTPNCIYDMFVH PRFGPIKCIR TLRAVEADEE LTVAYGYDHS PPGKSGPEAP EWYQVELKAFQATQQK |
| Sequence: | MDSDDEMVEE AVEGHLDDDG LPHGFCTVTY SSTDRFEGNF VHGEKNGRGK FFFFDGSTLE GYYVDDALQG QGVYTYEDGG VLQGTYVDGE LNGPAQEYDT DGRLIFKGQY KDNIRHGVCW IYYPDGGSLV GEVNEDGEMT GEKIAYVYPD ERTALYGKFI DGEMIEGKLA TLMSTEEGRP HFELMPGNSV YHFDKSTSSC ISTNALLPDP YESERVYVAE SLISSAGEGL FSKVAVGPNT VMSFYNGVRI THQEVDSRDW ALNGNTLSLD EETVIDVPEP YNHVSKYCAS LGHKANHSFT PNCIYDMFVH PRFGPIKCIR TLRAVEADEE LTVAYGYDHS PPGKSGPEAP EWYQVELKAF |

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Product Details

Characteristics:

Polyclonal Antibodies

Target Details

| l'arget 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. |

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-20 °C

Storage:

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Storage Comment:

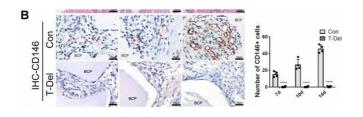
Store at -20°C. Avoid freeze / thaw cycles.

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

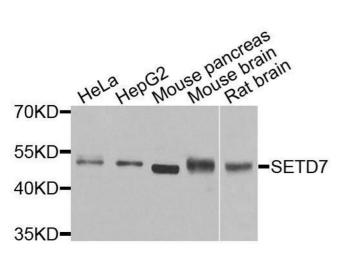


Western Blotting

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



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



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