

**Anti-SETD7/Set7 Rabbit Monoclonal Antibody**  
**Catalog # ABO13580****Specification**

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**Anti-SETD7/Set7 Rabbit Monoclonal Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB, IP                 |
| Primary Accession | <a href="#">Q8WTS6</a> |
| Host              | Rabbit                 |
| Isotype           | Rabbit IgG             |
| Reactivity        | Rat, Human, Mouse      |
| Clonality         | Monoclonal             |
| Format            | Liquid                 |

**Description**

Anti-SETD7/Set7 Rabbit Monoclonal Antibody . Tested in WB, IP applications. This antibody reacts with Human, Mouse, Rat.

**Anti-SETD7/Set7 Rabbit Monoclonal Antibody - Additional Information**

**Gene ID** 80854

**Other Names**

Histone-lysine N-methyltransferase SETD7, 2.1.1.364 {ECO:0000255|PROSITE-ProRule:PRU00910, ECO:0000269|PubMed:12540855}, Histone H3-K4 methyltransferase SETD7, H3-K4-HMTase SETD7, Lysine N-methyltransferase 7, SET domain-containing protein 7, SET7/9, SETD7

**Calculated MW**

40721 MW KDa

**Application Details**

WB 1:500-1:2000<br>IP 1:50

**Subcellular Localization**

Nucleus. Chromosome.

**Tissue Specificity**

Widely expressed. Expressed in pancreatic islets.

**Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

**Immunogen**

A synthesized peptide derived from human SETD7

**Purification**

Affinity-chromatography

**Storage**

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for**

**up to one month. Avoid repeated  
freeze-thaw cycles.**

## **Anti-SETD7/Set7 Rabbit Monoclonal Antibody - Protein Information**

### **Name SETD7**

#### **Function**

Histone methyltransferase that specifically monomethylates 'Lys-4' of histone H3 (PubMed:<a href="http://www.uniprot.org/citations/11779497" target="\_blank">11779497</a>, PubMed:<a href="http://www.uniprot.org/citations/11850410" target="\_blank">11850410</a>, PubMed:<a href="http://www.uniprot.org/citations/12540855" target="\_blank">12540855</a>, PubMed:<a href="http://www.uniprot.org/citations/12588998" target="\_blank">12588998</a>, PubMed:<a href="http://www.uniprot.org/citations/16141209" target="\_blank">16141209</a>). H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation (PubMed:<a href="http://www.uniprot.org/citations/12540855" target="\_blank">12540855</a>, PubMed:<a href="http://www.uniprot.org/citations/12588998" target="\_blank">12588998</a>, PubMed:<a href="http://www.uniprot.org/citations/16141209" target="\_blank">16141209</a>). Plays a central role in the transcriptional activation of genes such as collagenase or insulin (PubMed:<a href="http://www.uniprot.org/citations/12588998" target="\_blank">12588998</a>, PubMed:<a href="http://www.uniprot.org/citations/16141209" target="\_blank">16141209</a>). Recruited by IPF1/PDX-1 to the insulin promoter, leading to activate transcription (PubMed:<a href="http://www.uniprot.org/citations/16141209" target="\_blank">16141209</a>). Also has methyltransferase activity toward non- histone proteins such as CGAS, p53/TP53, TAF10, and possibly TAF7 by recognizing and binding the [KR]-[STA]-K in substrate proteins (PubMed:<a href="http://www.uniprot.org/citations/15099517" target="\_blank">15099517</a>, PubMed:<a href="http://www.uniprot.org/citations/15525938" target="\_blank">15525938</a>, PubMed:<a href="http://www.uniprot.org/citations/16415881" target="\_blank">16415881</a>, PubMed:<a href="http://www.uniprot.org/citations/35210392" target="\_blank">35210392</a>). Monomethylates 'Lys-189' of TAF10, leading to increase the affinity of TAF10 for RNA polymerase II (PubMed:<a href="http://www.uniprot.org/citations/15099517" target="\_blank">15099517</a>, PubMed:<a href="http://www.uniprot.org/citations/16415881" target="\_blank">16415881</a>). Monomethylates 'Lys-372' of p53/TP53, stabilizing p53/TP53 and increasing p53/TP53-mediated transcriptional activation (PubMed:<a href="http://www.uniprot.org/citations/15525938" target="\_blank">15525938</a>, PubMed:<a href="http://www.uniprot.org/citations/16415881" target="\_blank">16415881</a>, PubMed:<a href="http://www.uniprot.org/citations/17108971" target="\_blank">17108971</a>). Monomethylates 'Lys-491' of CGAS, promoting interaction between SGF29 and CGAS (By similarity).

#### **Cellular Location**

Nucleus. Chromosome

#### **Tissue Location**

Widely expressed. Expressed in pancreatic islets.

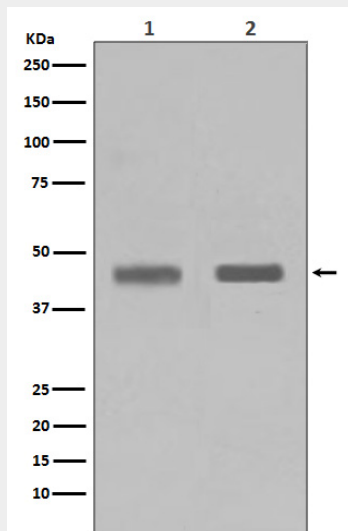
## **Anti-SETD7/Set7 Rabbit Monoclonal Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)

- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### Anti-SETD7/Set7 Rabbit Monoclonal Antibody - Images



Western blot analysis of SETD7 in (1) Jurkat cell lysate; (2) HeLa cell lysate.