

Set9 polyclonal antibody
Rabbit Polyclonal Antibody
Catalog # ABV11376**Specification**

Set9 polyclonal antibody - Product Information

Application	WB
Primary Accession	Q8WTS6
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	40721

Set9 polyclonal antibody - Additional Information**Gene ID** 80854**Positive Control**
Application & Usage
Other Names
SET7, SET7/9, KMT7, H3-K4-HMTase**Western blot: HeLa cells**
Western Blot: 1:1000**Target/Specificity**
Set9**Antibody Form**
Liquid**Appearance**
Colorless liquid**Formulation**
In PBS with 0.05% sodium azide and 0.05% ProClin 300.**Handling**
The antibody solution should be gently mixed before use.**Reconstitution & Storage**
-20 °C**Background Descriptions****Precautions**
Set9 polyclonal antibody is for research use only and not for use in diagnostic or therapeutic procedures.**Set9 polyclonal antibody - Protein Information**

Name SETD7**Function**

Histone methyltransferase that specifically monomethylates 'Lys-4' of histone H3 (PubMed:11779497, PubMed:11850410, PubMed:12588998, PubMed:12540855, PubMed:16141209). H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation (PubMed:12588998, PubMed:12540855, PubMed:16141209). Plays a central role in the transcriptional activation of genes such as collagenase or insulin (PubMed:16141209, PubMed:12588998). Recruited by IPF1/PDX-1 to the insulin promoter, leading to activate transcription (PubMed:16141209). Has also 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:15099517, PubMed:35210392, PubMed:15525938, PubMed:16415881). Monomethylates 'Lys-189' of TAF10, leading to increase the affinity of TAF10 for RNA polymerase II (PubMed:15099517, PubMed:16415881). Monomethylates 'Lys-372' of p53/TP53, stabilizing p53/TP53 and increasing p53/TP53-mediated transcriptional activation (PubMed:17108971, PubMed:15525938, PubMed:16415881). 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.

Set9 polyclonal 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](#)

Set9 polyclonal antibody - Images**Set9 polyclonal antibody - Background**

Set9 is a histone methyltransferase which specifically methylates lysine 4 of histone H3 being a specific tag for epigenetic transcriptional activation. Further, methylation of histone H3K4 by Set9 precludes deacetylation of H3 by the NuRD complex and impairs Suv39h1-mediated methylation of H3K9. Set9 also methylates the tumor suppressor p53 at lysine 372, thereby enhancing its stability. It contains a SET domain but lacks the pre- and post-SET domains).