

Product Name: SETD7 Mouse Monoclonal Antibody**Catalog #: AMM82270**

For research use only.

Summary

Description	Mouse monoclonal Antibody
Host	Mouse
Application	WB,ELISA,FC
Reactivity	Human,Rat,Monkey
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG2a
Clonality	Monoclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Purified antibody in PBS with 0.05% sodium azide
Purification	Affinity Purification

Application

Dilution Ratio	WB 1:500-1:2000,ELISA 1:5000-1:20000,FC 1:200-1:400
Molecular Weight	40.7kDa

Antigen Information

Gene Name	SETD7
Alternative Names	KMT7; SET7; SET9; SET7/9
Gene ID	80854.0
SwissProt ID	Q8WTS6
Immunogen	Purified recombinant fragment of human SETD7 (AA: 107-366) expressed in E. Coli.

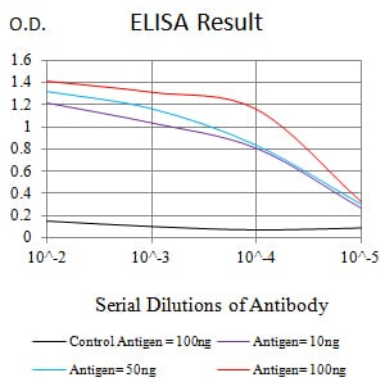
Background

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

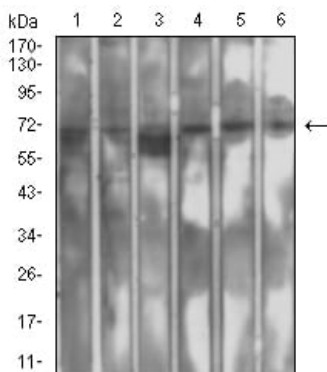
toward non-histone proteins such as p53/TP53, TAF10, and possibly TAF7 by recognizing and binding the [KR]-[STA]-K in substrate proteins. Monomethylates Lys-189 of TAF10, leading to increase the affinity of TAF10 for RNA polymerase II. Monomethylates Lys-372 of p53/TP53, stabilizing p53/TP53 and increasing p53/TP53-mediated transcriptional activation.

Research Area

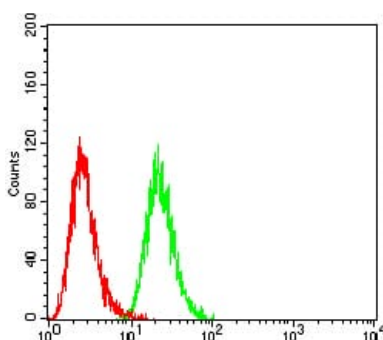
Image Data



Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



Western blot analysis using SETD7 mouse mAb against MCF-7 (1), Hela (2), A549 (3), COS7 (4), Jurkat (5), and PC-12 (6) cell lysate.



Flow cytometric analysis of Hela cells using SETD7 mouse mAb (green) and negative control (red).