

Anti-SET7 Antibody [PSH02-90] - BSA and Azide free

HA750845



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat, Monkey
Applications:	WB, IF-Cell, FC
Molecular Wt:	Predicted band size: 41 kDa
Clone number:	PSH02-90

Description: Enables histone-lysine N-methyltransferase activity and p53 binding activity. Involved in peptidyl-lysine dimethylation and peptidyl-lysine monomethylation. Acts upstream of or within cellular response to DNA damage stimulus and heterochromatin organization. Located in chromosome and nucleolus.

Immunogen: Recombinant protein within human SET7 aa 1-366 / 366.

Positive control: HeLa cell lysate, PC-3M cell lysate, Jurkat cell lysate, MCF7 cell lysate, NIH/3T3 cell lysate, RAW264.7 cell lysate, PC-12 cell lysate, COS-1 cell lysate, HeLa, NIH/3T3.

Subcellular location: Nucleus, Chromosome.

Database links: SwissProt: Q8WTS6 Human | Q8VHL1 Mouse
Entrez Gene: 689954 Rat

Recommended Dilutions:

WB	1:2,000
IF-Cell	1:100
FC	1:1,000

Storage Buffer: 1*PBS (pH7.4).

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

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Orders:0086-571-88062880

Technical:0086-571-89986345

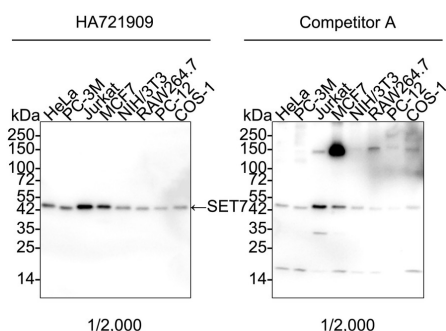
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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

Fig1: Western blot analysis of SET7 on different lysates with Rabbit anti-SET7 antibody (HA750845) at 1/2,000 dilution and competitor's antibody at 1/2,000 dilution.



Lane 1: HeLa cell lysate
Lane 2: PC-3M cell lysate
Lane 3: Jurkat cell lysate
Lane 4: MCF7 cell lysate
Lane 5: NIH/3T3 cell lysate
Lane 6: RAW264.7 cell lysate
Lane 7: PC-12 cell lysate
Lane 8: COS-1 cell lysate

Lysates/proteins at 20 µg/Lane.

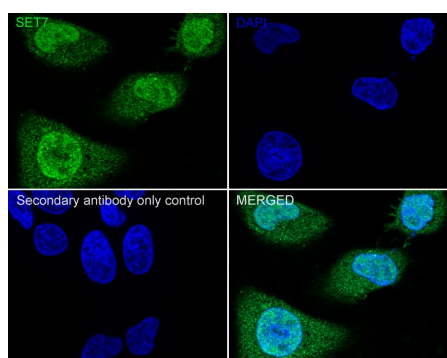
Predicted band size: 41 kDa
Observed band size: 50 kDa

Exposure time: 15 seconds; ECL: K1802;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA750845) at 1/2,000 dilution and competitor's antibody at 1/2,000 dilution were used in 5% NFDM/TBST at 4 °C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Fig2: Immunocytochemistry analysis of HeLa cells labeling SET7 with Rabbit anti-SET7 antibody (HA750845) at 1/100 dilution.



Cells were fixed in 4% paraformaldehyde for 20 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-SET7 antibody (HA750845) at 1/100 dilution in 1% BSA in PBST overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

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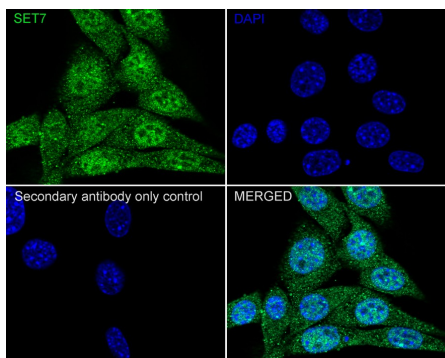


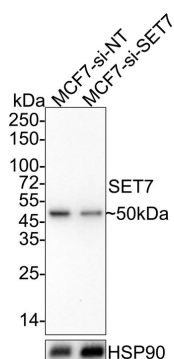
Fig3: Immunocytochemistry analysis of NIH/3T3 cells labeling SET7 with Rabbit anti-SET7 antibody (HA750845) at 1/100 dilution.

Cells were fixed in 4% paraformaldehyde for 20 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-SET7 antibody (HA750845) at 1/100 dilution in 1% BSA in PBST overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

Fig4: Western blot analysis of SET7 on different lysates with Rabbit anti-SET7 antibody (HA750845) at 1/2,000 dilution.

Lane 1: MCF7-si NT cell lysate
Lane 2: MCF7-si SET7 cell lysate

Lysates/proteins at 10 µg/Lane.



Predicted band size: 41 kDa

Observed band size: 50 kDa

Exposure time: 1 minute 2 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA750845) at 1/2,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

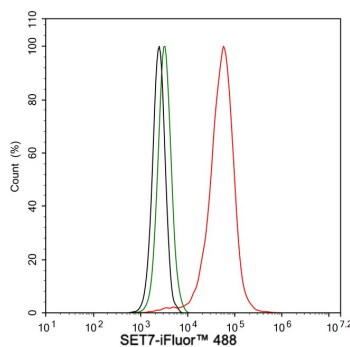


Fig5: Flow cytometric analysis of HeLa cells labeling SET7.

Cells were fixed and permeabilized. Then stained with the primary antibody (HA750845, 1µg/mL) (red) compared with Rabbit IgG Isotype Control (green). After incubation of the primary antibody at +4°C for an hour, the cells were stained with a iFluor™ 488 conjugate-Goat anti-Rabbit IgG Secondary antibody (HA1121) at 1/1,000 dilution for 30 minutes at +4°C. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

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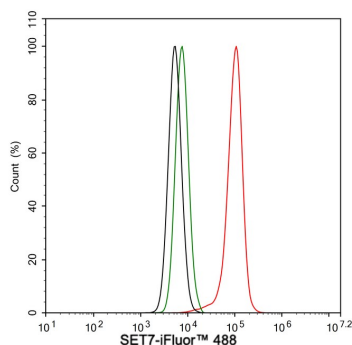


Fig6: Flow cytometric analysis of NIH/3T3 cells labeling SET7.

Cells were fixed and permeabilized. Then stained with the primary antibody (HA750845, 1 μ g/mL) (red) compared with Rabbit IgG Isotype Control (green). After incubation of the primary antibody at +4 $^{\circ}$ C for an hour, the cells were stained with a iFluor™ 488 conjugate-Goat anti-Rabbit IgG Secondary antibody (HA1121) at 1/1,000 dilution for 30 minutes at +4 $^{\circ}$ C. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

Note: All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”.

Background References

1. Lunardon G et al. Set7 deletion attenuates isoproterenol-induced cardiac fibrosis and delays cardiac dysfunction. Clin Sci (Lond). 2022 Nov
2. Daks A et al. Methyltransferase Set7/9 as a Multifaceted Regulator of ROS Response. Int J Biol Sci. 2023 Apr

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