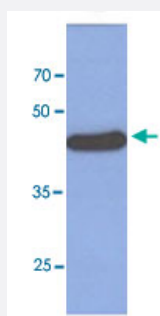


SETD7 monoclonal antibody, clone s4E5

Catalog # MAB1053

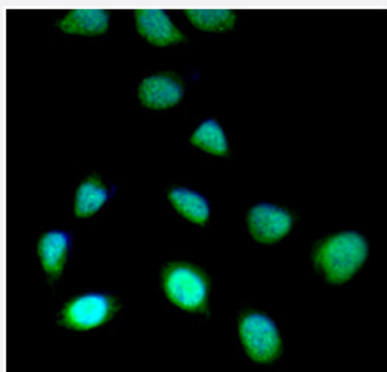
Size 100 uL

Applications



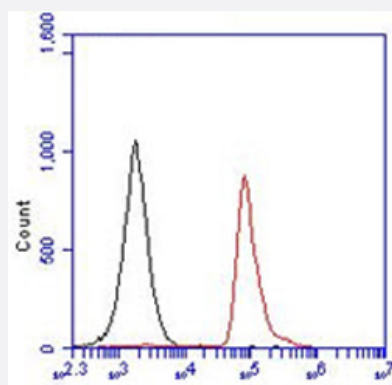
Western Blot (Cell lysate)

Western blot analysis of 293T cell lysate.



Immunocytochemistry

Immunocytochemistry analysis of HeLa cells. The cell was stained with SETD7 monoclonal antibody, clone s4E5 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).



Flow Cytometry

Flow cytometry analysis of Jurkat cell line, staining at 2-5 ug for 1x10⁶(red line) cells. The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant SETD7.
Immunogen	Recombinant protein corresponding to amino acids 1-366 of human SETD7.
Host	Mouse
Reactivity	Human
Form	Liquid
Purification	Protein A affinity chromatography
Isotype	IgG2b, kappa
Recommend Usage	ELISA Flow Cytometry Immunocytochemistry (1:100) Immunofluorescence (1:100) Western Blot (1:1000-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (10% glycerol, 0.02% sodium azide).
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of 293T cell lysate.

- Immunocytochemistry

Immunocytochemistry analysis of HeLa cells. The cell was stained with SETD7 monoclonal antibody, clone s4E5 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

- Immunofluorescence

- Enzyme-linked Immunoabsorbent Assay

- Flow Cytometry

Flow cytometry analysis of Jurkat cell line, staining at 2-5 ug for 1×10^6 (red line) cells. The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).

Gene Info — SETD7

Entrez GeneID	80854
GeneBank Accession#	NM_030648
Protein Accession#	Q8WTS6
Gene Name	SETD7
Gene Alias	FLJ21193, KIAA1717, KMT7, SET7, SET7/9, SET9
Gene Description	SET domain containing (lysine methyltransferase) 7
Omim ID	606594
Gene Ontology	Hyperlink
Other Designations	H3-K4-HMTase SET domain-containing protein 7 histone H3-K4 methyltransferase histone H3-lysine 4-specific methyltransferase

Publication Reference

- [Protein demethylation required for DNA methylation.](#)

Hotz HR, Peters AH.

Nature Genetics 2009 Jan; 41(1):10.

- [Structure and catalytic mechanism of the human histone methyltransferase SET7/9.](#)

Xiao B, Jing C, Wilson JR, Walker PA, Vasisht N, Kelly G, Howell S, Taylor IA, Blackburn GM, Gamblin SJ.

Nature 2003 Jan; 421(6923):652.

- [Mechanism of histone lysine methyl transfer revealed by the structure of SET7/9-AdoMet.](#)

Kwon T, Chang JH, Kwak E, Lee CW, Joachimiak A, Kim YC, Lee J, Cho Y.

The EMBO Journal 2003 Jan; 22(2):292.

- [Set9, a novel histone H3 methyltransferase that facilitates transcription by precluding histone tail modifications required for heterochromatin formation.](#)

Nishioka K, Chuikov S, Sarma K, Erdjument-Bromage H, Allis CD, Tempst P, Reinberg D.

Genes & Development 2002 Feb; 16(4):479.

Pathway

- [Lysine degradation](#)

Disease

- [Tobacco Use Disorder](#)