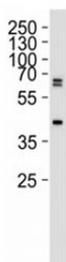


## SET07 Antibody / KMT5A [clone 43AT551.86] (F40198)

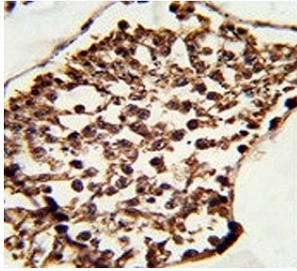
Catalog No.	Formulation	Size
F40198-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F40198-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

[Bulk quote request](#)

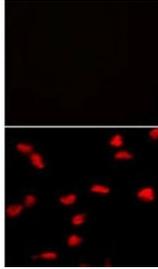
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human, Mouse
<b>Format</b>	Purified
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG1
<b>Clone Name</b>	43AT551.86
<b>Purity</b>	Purified
<b>UniProt</b>	Q9NQR1
<b>Applications</b>	Western Blot : 1:1000 IHC (Paraffin) : 1:10-1:50 Immunofluorescence : 1:10-1:50
<b>Limitations</b>	This SET07 antibody is available for research use only.



Western blot analysis of 293 lysate using SET07 antibody at 1:1000.



IHC analysis of FFPE human testis tissue stained with SET07 antibody



Immunofluorescence analysis of SET07 antibody and HeLa cells with (bottom) and without (top) PE-conjugated goat anti-mouse IgG secondary.

## Description

SET07 is a protein-lysine N-methyltransferase that monomethylates both histones and non-histone proteins. Specifically monomethylates 'Lys-20' of histone H4 (H4K20me1). H4K20me1 is enriched during mitosis and represents a specific tag for epigenetic transcriptional repression. Mainly functions in euchromatin regions, thereby playing a central role in the silencing of euchromatic genes. Required for cell proliferation, probably by contributing to the maintenance of proper higher-order structure of DNA during mitosis. Involved in chromosome condensation and proper cytokinesis. Nucleosomes are preferred as substrate compared to free histones. Mediates monomethylation of p53/TP53 at 'Lys-382', leading to repress p53/TP53-target genes. Plays a negative role in TGF-beta response regulation and a positive role in cell migration. [UniProt]

## Application Notes

Titration of the SET07 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

This SET07 antibody was raised using purified recombinant GST fusion protein encoding the N-terminal region of human SET07.

## Storage

Aliquot the SET07 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.