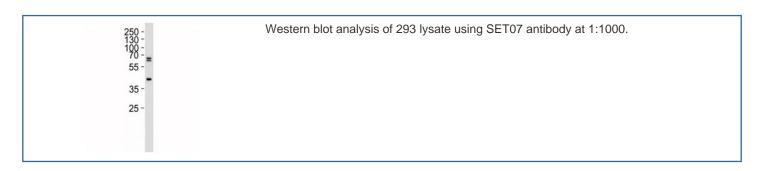


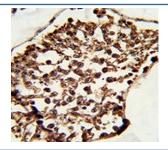
# SET07 Antibody / KMT5A [clone 43AT551.86] (F40198)

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

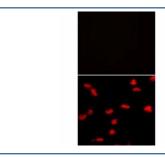
## **Bulk quote request**

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





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.