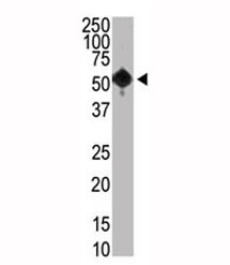
SET07 Antibody / KMT5A [clone 43AT890] (F40199)

Catalog No.	Formulation	Size
F40199-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F40199-0.08ML	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
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1
Clone Name	43AT890
Purity	Purified
UniProt	Q9NQR1
Applications	Western blot: 1:100-1:500
Limitations	This SET07 antibody is available for research use only.



The SET07 antibody used in western blot to detect SET07 in 293 cells.

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 N-terminal of human SET07.

Storage

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

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