

Product Information

Monoclonal Anti-SET07

Clone 43AT551.86

produced in mouse, purified immunoglobulin

Catalog Number **SAB1300003**

Storage Temperature **-20 °C**

Synonyms: Anti-Histone H4-K20 methyltransferase,
Anti-H4-K20-HMTase, Anti-PR/SET07

Product Description

SET07 is a histone methyltransferase that methylates Lys²⁰ of histone H4. H4 Lys²⁰ methylation represents a specific tag for epigenetic transcriptional repression. The nuclear SET07 protein, which associates with silent chromatin on euchromatic arms but shows no association with constitutive heterochromatin, prefers nucleosomes as substrate compared to free histones. It appears SET07 may play a role in maintaining silent chromatin by preventing neighboring acetylation of the H4 tail. Although the SET domain contains the active site of enzymatic activity, both sequences upstream and downstream of the SET domain are required for methyltransferase activity.

NCBI Accession number: AAF97812
Swiss Prot Accession number: Q9NQR1

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

Immunogen: SET07 (AAF97812, N Terminal)

Isotype: IgG1

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.

Species reactivity: mouse, human

Tested applications: Immunoblotting: 1:100–1:500
ELISA (i): 1:1,000

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

Store the product at **-20 °C** in working aliquots. Repeated freezing and thawing is not recommended. Storage in "frost-free" freezers is also not recommended. For continuous use, store at **2–8 °C** for up to one month. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilutions should be discarded if not used within 12 hours.

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