

SET07 Antibody Blocking peptide
Catalog # BP1191c**Specification**

SET07 Antibody Blocking peptide - Product InformationPrimary Accession [Q9NQR1](#)**SET07 Antibody Blocking peptide - Additional Information**

Gene ID 387893

Other Names

N-lysine methyltransferase SETD8, 2.1.1.-, H4-K20-HMTase SETD8, Histone-lysine N-methyltransferase SETD8, 2.1.1.43, Lysine N-methyltransferase 5A, PR/SET domain-containing protein 07, PR-Set7, PR/SET07, SET domain-containing protein 8, SETD8, KMT5A, PRSET7, SET07, SET8

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SET07 Antibody Blocking peptide - Protein InformationName KMT5A ([HGNC:29489](#))**Function**

Protein-lysine N-methyltransferase that monomethylates both histones and non-histone proteins (PubMed:[12086618](http://www.uniprot.org/citations/12086618), PubMed:[12121615](http://www.uniprot.org/citations/12121615), PubMed:[15964846](http://www.uniprot.org/citations/15964846), PubMed:[17707234](http://www.uniprot.org/citations/17707234), PubMed:[27338793](http://www.uniprot.org/citations/27338793)). Specifically monomethylates 'Lys-20' of histone H4 (H4K20me1) (PubMed:[12086618](http://www.uniprot.org/citations/12086618), PubMed:[12121615](http://www.uniprot.org/citations/12121615), PubMed:[15964846](http://www.uniprot.org/citations/15964846), PubMed:[27338793](http://www.uniprot.org/citations/27338793), PubMed:[15200950](http://www.uniprot.org/citations/15200950), PubMed:[15933069](http://www.uniprot.org/citations/15933069), PubMed:[15933070](http://www.uniprot.org/citations/15933070), PubMed:[16517599](http://www.uniprot.org/citations/16517599)). H4K20me1 is enriched during mitosis and represents a specific tag for epigenetic transcriptional repression

(PubMed:12086618, PubMed:12121615, PubMed:15964846, PubMed:15200950, PubMed:15933069, PubMed:15933070, PubMed:16517599). Mainly functions in euchromatin regions, thereby playing a central role in the silencing of euchromatic genes (PubMed:12086618, PubMed:12121615, PubMed:15964846, PubMed:15200950, PubMed:15933069, PubMed:15933070, PubMed:16517599). Required for cell proliferation, probably by contributing to the maintenance of proper higher-order structure of DNA during mitosis (PubMed:12086618, PubMed:12121615, PubMed:15964846, PubMed:15200950, PubMed:15933069, PubMed:15933070, PubMed:16517599). Involved in chromosome condensation and proper cytokinesis (PubMed:12086618, PubMed:12121615, PubMed:15964846, PubMed:15200950, PubMed:15933069, PubMed:15933070, PubMed:16517599). Nucleosomes are preferred as substrate compared to free histones (PubMed:12086618, PubMed:12121615, PubMed:15964846, PubMed:15200950, PubMed:15933069, PubMed:15933070, PubMed:16517599). Mediates monomethylation of p53/TP53 at 'Lys-382', leading to repress p53/TP53-target genes (PubMed:17707234). Plays a negative role in TGF- β response regulation and a positive role in cell migration (PubMed:23478445).

Cellular Location

Nucleus. Chromosome. Note=Specifically localizes to mitotic chromosomes (PubMed:12208845). Colocalized with SIRT2 at mitotic foci (PubMed:23468428). Associates with chromosomes during mitosis; association is increased in a H₂O₂-induced oxidative stress- dependent manner (PubMed:23468428). Associates with silent chromatin on euchromatic arms (PubMed:12086618). Not associated with constitutive heterochromatin (PubMed:12086618).

SET07 Antibody Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

SET07 Antibody Blocking peptide - Images