SETD8 (KMT5A) methylates lysine-21 of histone H4 (H4K20)

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Introduction

Reactome is open-source, open access, manually curated and peer-reviewed pathway database. Pathway annotations are authored by expert biologists, in collaboration with Reactome editorial staff and cross-referenced to many bioinformatics databases. A system of evidence tracking ensures that all assertions are backed up by the primary literature. Reactome is used by clinicians, geneticists, genomics researchers, and molecular biologists to interpret the results of high-throughput experimental studies, by bioinformaticians seeking to develop novel algorithms for mining knowledge from genomic studies, and by systems biologists building predictive models of normal and disease variant pathways.

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Literature references


Monomethylation of lysine-21 of histone H4 (H4K20) is performed by SETD8 (KMT5A) (Yin et al. 2005). Trimethylation, performed by SUV420H1 and SUV420H2 and possibly SMYD3 (Foreman et al. 2011), is associated with heterochromatin formation and gene repression (Schotta et al. 2004).

**Literature references**
