

SETD6 methylates RELA in the NFkB complex

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https://reactome.org

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

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- Fabregat, A., Jupe, S., Matthews, L., Sidiropoulos, K., Gillespie, M., Garapati, P. et al. (2018). The Reactome Pathway Knowledgebase. *Nucleic Acids Res, 46*, D649-D655.
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Reactome database release: 88

This document contains 1 reaction (see Table of Contents)

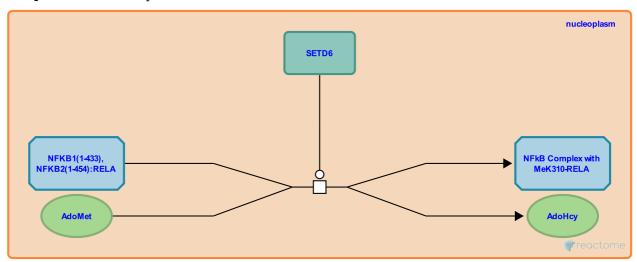
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SETD6 methylates RELA in the NFkB complex **₹**

Stable identifier: R-HSA-8865237

Type: transition

Compartments: nucleoplasm



SET domain containing 6 (SETD6) is an N-lysine methyltransferase that monomethylates the RelA subunit of nuclear factor kappa B (NF-kB) at Lys-310 (Levy et al. 2011, Chang et al. 2011).

Literature references

Tangsombatvisit, S., Tarakhovsky, A., Garcia, BA., Lee, K., Tanjing, S., Zee, BM. et al. (2011). Lysine methylation of the NF-ΰB subunit RelA by SETD6 couples activity of the histone methyltransferase GLP at chromatin to tonic repression of NF-ΰB signaling. *Nat. Immunol.*, 12, 29-36. *¬*

Editions

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