

RUNX3 binds TEADs and YAP1

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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

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Reactome database release: 70

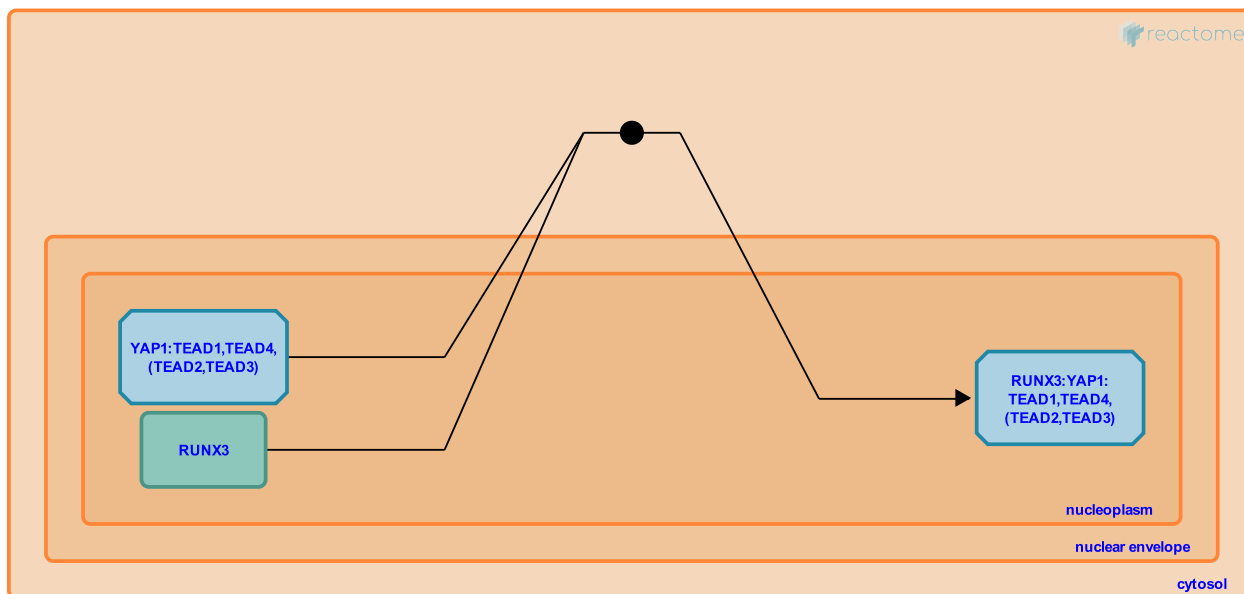
This document contains 1 reaction ([see Table of Contents](#))

RUNX3 binds TEADs and YAP1 [↗](#)

Stable identifier: R-HSA-8951676

Type: binding

Compartments: cytosol



RUNX3 interacts with both YAP1 and TEAD proteins. The interaction with YAP1 involves the PY motif of RUNX3 and the WW domain of YAP1. The interaction with TEADs involves the Runt domain of RUNX3 and the DNA recognition helix of TEADs. RUNX3 was shown to directly interact with TEAD1 and TEAD4. Based on sequence similarity, it is highly probable that RUNX3 also interacts with TEAD2 and TEAD3. The interaction of RUNX3 with YAP1 and/or TEADs does not prevent formation of the YAP1:TEADs complex (Yagi et al. 1999, Qiao et al. 2015).

Literature references

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Editions

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