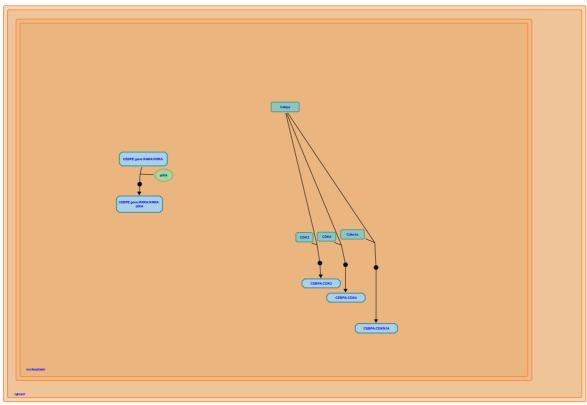


Transcriptional regulation of granu-

lopoiesis



reactome

European Bioinformatics Institute, New York University Langone Medical Center, Ontario Institute for Cancer Research, Oregon Health and Science University.

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This is just an excerpt of a full-length report for this pathway. To access the complete report, please download it at the $\frac{\text{Reactome Textbook}}{\text{Reactome Textbook}}$.

04/05/2024

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.

The development of Reactome is supported by grants from the US National Institutes of Health (P41 HG003751), University of Toronto (CFREF Medicine by Design), European Union (EU STRP, EMI-CD), and the European Molecular Biology Laboratory (EBI Industry program).

Literature references

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Reactome database release: 88

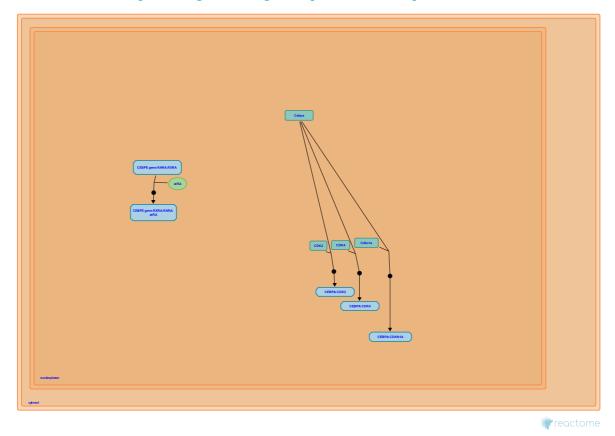
This document contains 1 pathway and 4 reactions (see Table of Contents)

https://reactome.org Page 2

Transcriptional regulation of granulopoiesis 7

Stable identifier: R-RNO-9616222

Inferred from: Transcriptional regulation of granulopoiesis (Homo sapiens)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

More details and caveats of the event inference in Reactome. For details on PANTHER see also: http://www.pantherdb.org/about.jsp

CEBPA binds CDK2 对

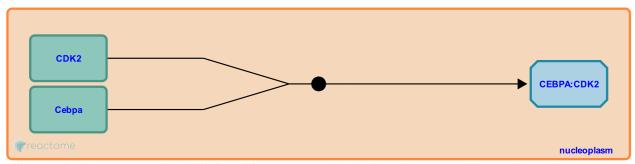
Location: Transcriptional regulation of granulopoiesis

Stable identifier: R-RNO-9624120

Type: binding

Compartments: nucleoplasm

Inferred from: CEBPA binds CDK2 (Homo sapiens)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

More details and caveats of the event inference in Reactome. For details on PANTHER see also: http://www.pantherdb.org/about.jsp

CEBPA binds CDK4

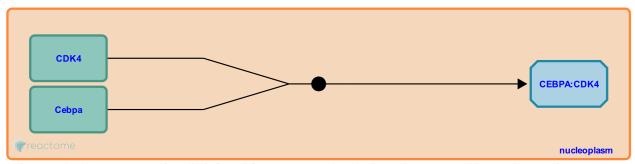
Location: Transcriptional regulation of granulopoiesis

Stable identifier: R-RNO-9624112

Type: binding

Compartments: nucleoplasm

Inferred from: CEBPA binds CDK4 (Homo sapiens)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

More details and caveats of the event inference in Reactome. For details on PANTHER see also: http://www.pantherdb.org/about.jsp

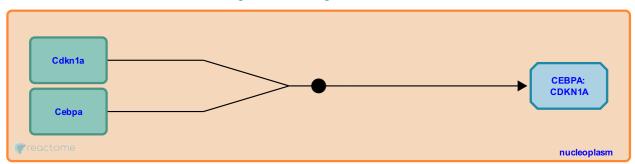
Location: Transcriptional regulation of granulopoiesis

Stable identifier: R-RNO-9624668

Type: binding

Compartments: nucleoplasm

Inferred from: CEBPA binds CDKN1A (p21) (Homo sapiens)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

More details and caveats of the event inference in Reactome. For details on PANTHER see also: http://www.pantherdb.org/about.jsp

https://reactome.org Page 6

All-trans retinoic acid binds RARA:RXRA at the promoter of the CEBPE gene **₹**

Location: Transcriptional regulation of granulopoiesis

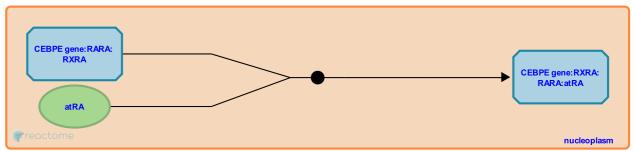
Stable identifier: R-RNO-9617067

Type: binding

Compartments: nucleoplasm

Inferred from: All-trans retinoic acid binds RARA:RXRA at the promoter of the CEBPE gene (Homo sapi-

ens)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

More details and caveats of the event inference in Reactome. For details on PANTHER see also: http://www.pantherdb.org/about.jsp

https://reactome.org Page 7

Table of Contents

| Introduction | 1 |
|---|---|
| Transcriptional regulation of granulopoiesis | 2 |
| ► CEBPA binds CDK2 | 3 |
| → CEBPA binds CDK4 | 4 |
| ➤ CEBPA binds CDKN1A (p21) | 5 |
| All-trans retinoic acid binds RARA:RXRA at the promoter of the CEBPE gene | 6 |
| Table of Contents | 7 |