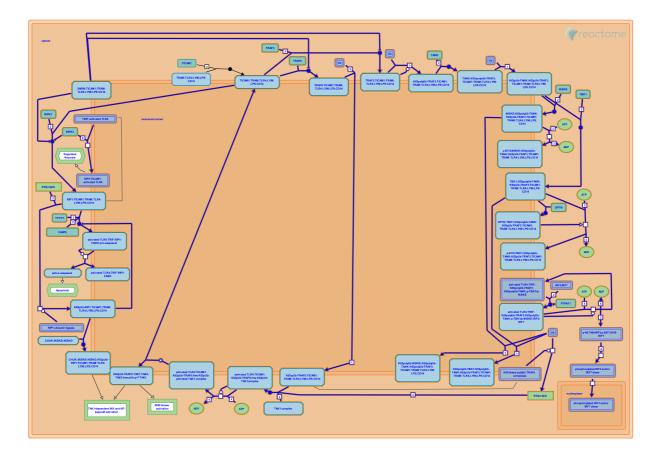


TRIF (TICAM1)-mediated TLR4 signaling



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 <u>Reactome Textbook</u>.

22/07/2024

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).

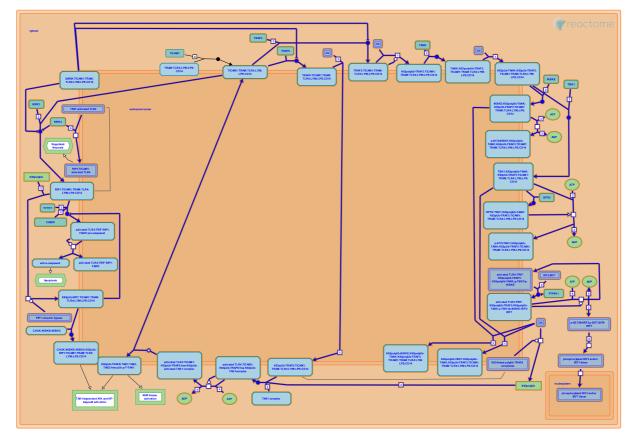
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- Fabregat, A., Korninger, F., Viteri, G., Sidiropoulos, K., Marin-Garcia, P., Ping, P. et al. (2018). Reactome graph database: Efficient access to complex pathway data. *PLoS computational biology*, *14*, e1005968. *オ*

This document contains 7 pathways (see Table of Contents)

TRIF (TICAM1)-mediated TLR4 signaling 🛪

Stable identifier: R-SSC-937061



Inferred from: TRIF (TICAM1)-mediated TLR4 signaling (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.

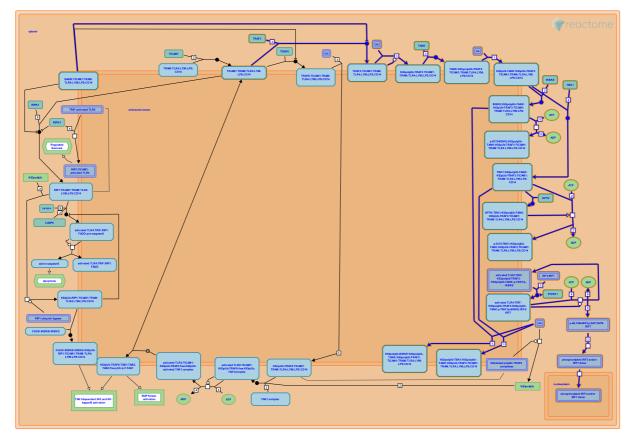
Activation of IRF3, IRF7 mediated by TBK1, IKKE (IKBKE) 7

Location: TRIF (TICAM1)-mediated TLR4 signaling

Stable identifier: R-SSC-936964

Compartments: cytosol

Inferred from: Activation of IRF3, IRF7 mediated by TBK1, IKKɛ (IKBKE) (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.

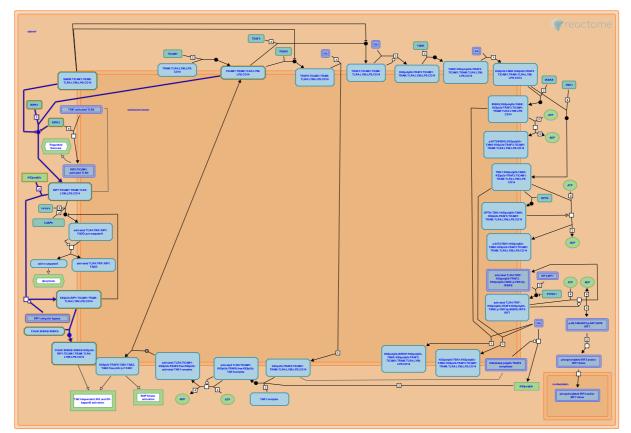
IKK complex recruitment mediated by RIP1 7

Location: TRIF (TICAM1)-mediated TLR4 signaling

Stable identifier: R-SSC-937041

Compartments: cytosol

Inferred from: IKK complex recruitment mediated by RIP1 (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.

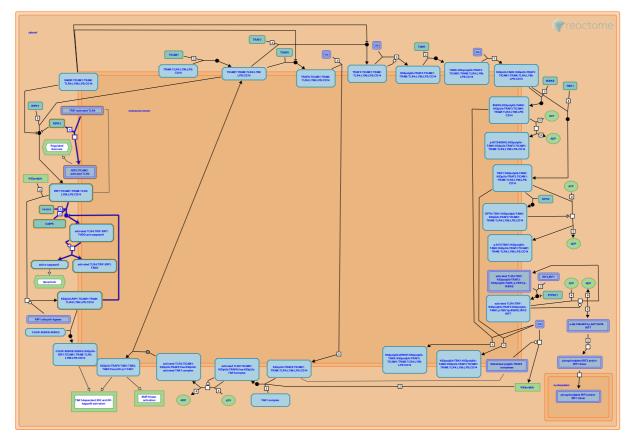
TRIF-mediated programmed cell death *对*

Location: TRIF (TICAM1)-mediated TLR4 signaling

Stable identifier: R-SSC-2562578

Compartments: endosome membrane, cytosol

Inferred from: TRIF-mediated programmed cell death (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.

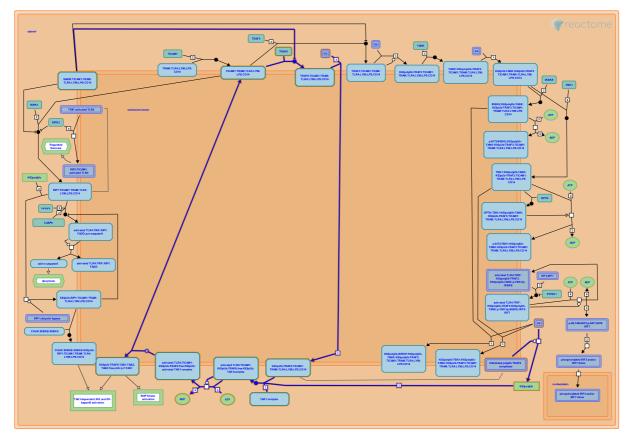
TRAF6-mediated induction of TAK1 complex within TLR4 complex 7

Location: TRIF (TICAM1)-mediated TLR4 signaling

Stable identifier: R-SSC-937072

Compartments: endosome membrane, cytosol

Inferred from: TRAF6-mediated induction of TAK1 complex within TLR4 complex (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.

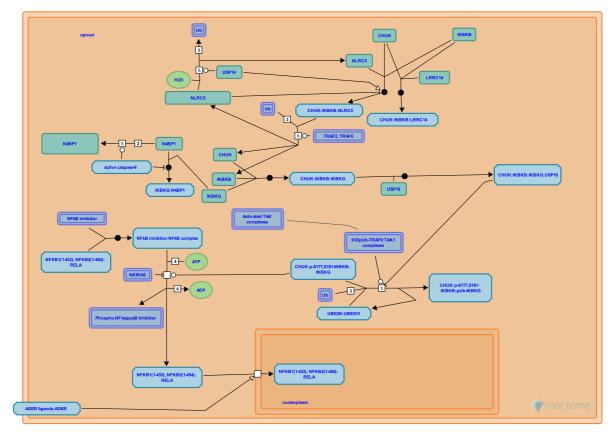
TAK1-dependent IKK and NF-kappa-B activation 🦻

Location: TRIF (TICAM1)-mediated TLR4 signaling

Stable identifier: R-SSC-445989

Compartments: nucleoplasm, cytosol

Inferred from: TAK1-dependent IKK and NF-kappa-B activation (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.

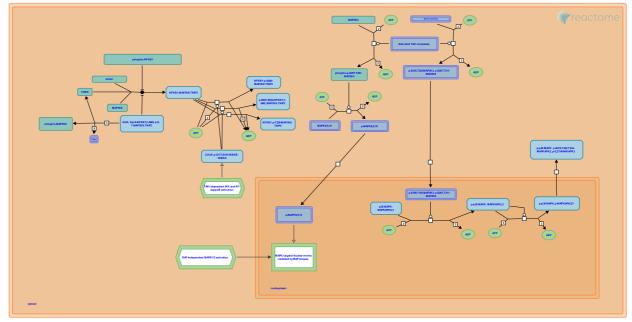
MAP kinase activation 7

Location: TRIF (TICAM1)-mediated TLR4 signaling

Stable identifier: R-SSC-450294

Compartments: nucleoplasm, cytosol

Inferred from: MAP kinase activation (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.

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