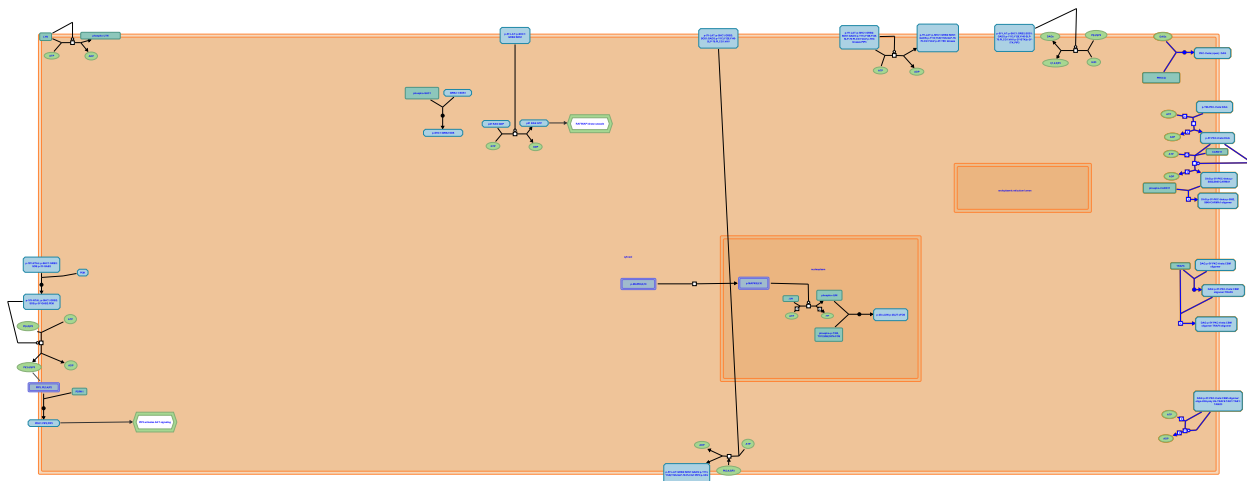


FCERI mediated NF- κ B activation



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

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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.

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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- 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. [↗](#)

Reactome database release: 75

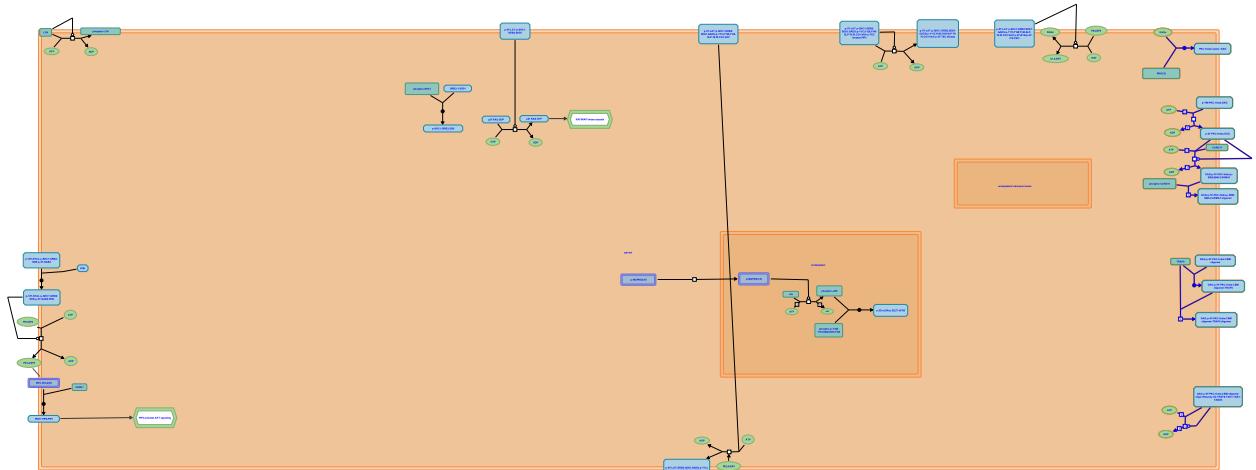
This document contains 1 pathway and 7 reactions ([see Table of Contents](#))

FCERI mediated NF-kB activation ↗

Stable identifier: R-BTA-2871837

Compartments: cytosol, nucleoplasm, plasma membrane

Inferred from: [FCERI mediated NF-kB activation \(Homo sapiens\)](#)



reactome

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.](/electronic_inference_compara.html) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

Translocation of PKC theta to plasma membrane [↗](#)

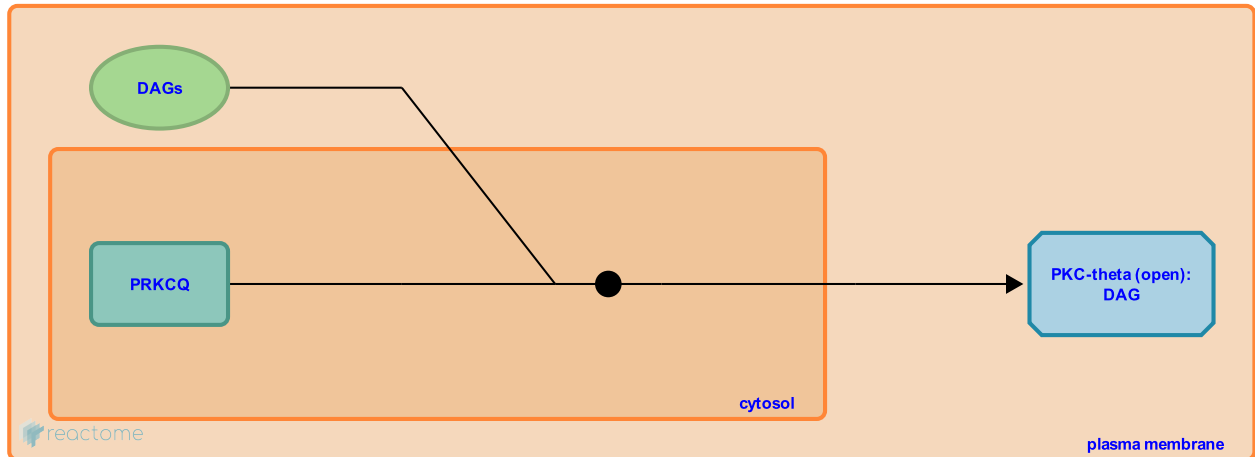
Location: FCERI mediated NF-kB activation

Stable identifier: R-BTA-202328

Type: binding

Compartments: cytosol, plasma membrane

Inferred from: [Translocation of PKC theta to plasma membrane \(Homo sapiens\)](#)



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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Autophosphorylation of PKC-theta ↗

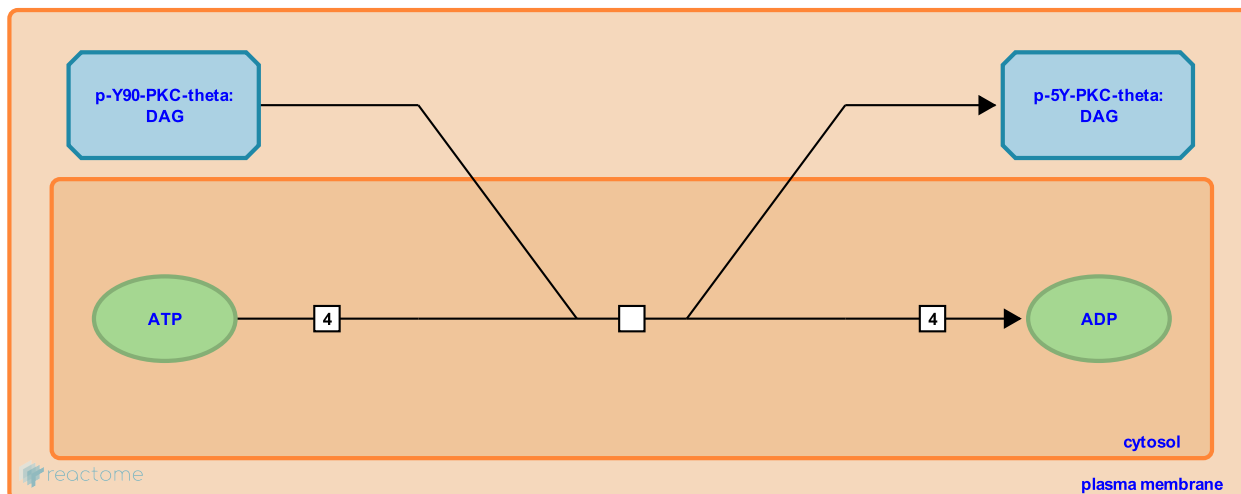
Location: FCERI mediated NF-kB activation

Stable identifier: R-BTA-2730835

Type: transition

Compartments: cytosol, plasma membrane

Inferred from: Autophosphorylation of PKC-theta (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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Followed by: [Phosphorylation of CARMA1 by PKC-theta](#)

Phosphorylation of CARMA1 by PKC-theta ↗

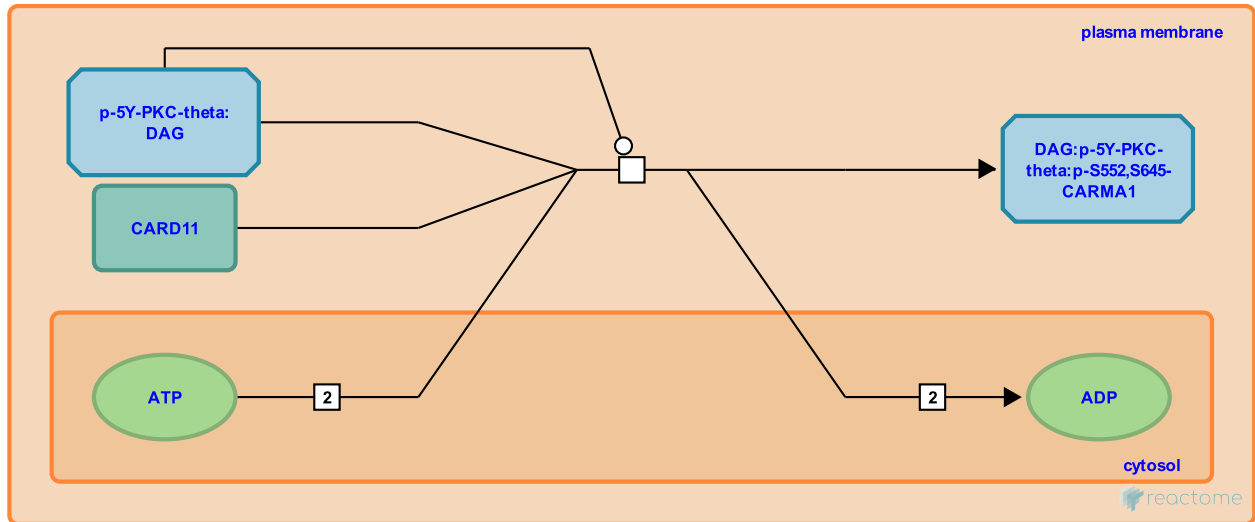
Location: FCERI mediated NF-kB activation

Stable identifier: R-BTA-2730863

Type: transition

Compartments: plasma membrane, cytosol

Inferred from: Phosphorylation of CARMA1 by PKC-theta (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.](/electronic_inference_compara.html) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

Preceded by: [Autophosphorylation of PKC-theta](#)

Followed by: [Oligomerization of p-CARMA1](#)

Oligomerization of p-CARMA1 ↗

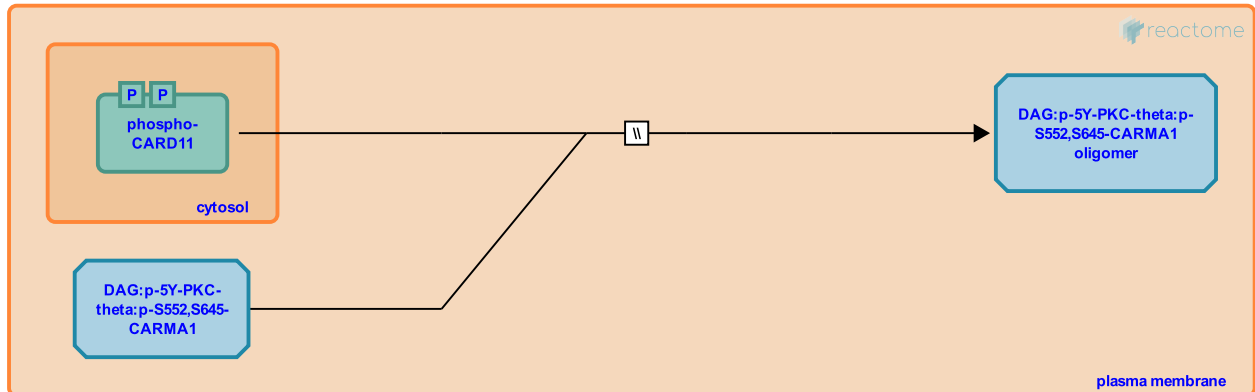
Location: FCERI mediated NF-kB activation

Stable identifier: R-BTA-2730902

Type: omitted

Compartments: plasma membrane, cytosol

Inferred from: Oligomerization of p-CARMA1 (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.](/electronic_inference_compara.html) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

Preceded by: Phosphorylation of CARMA1 by PKC-theta

Recruitment of TRAF6 to CBM complex by binding to MALT1 ↗

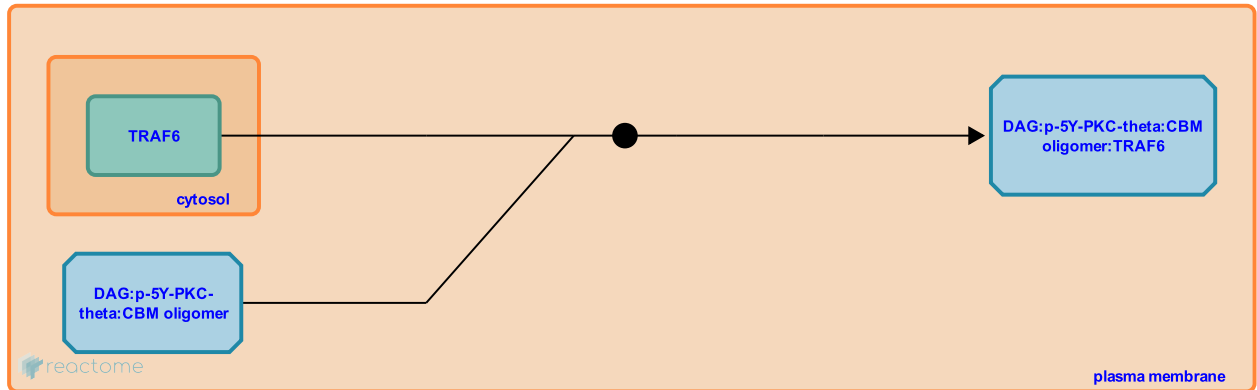
Location: [FCERI mediated NF-kB activation](#)

Stable identifier: R-BTA-2730864

Type: binding

Compartments: plasma membrane, cytosol

Inferred from: [Recruitment of TRAF6 to CBM complex by binding to MALT1 \(Homo sapiens\)](#)



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.](/electronic_inference_compara.html) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

Followed by: [Oligomerization of TRAF6](#)

Oligomerization of TRAF6 ↗

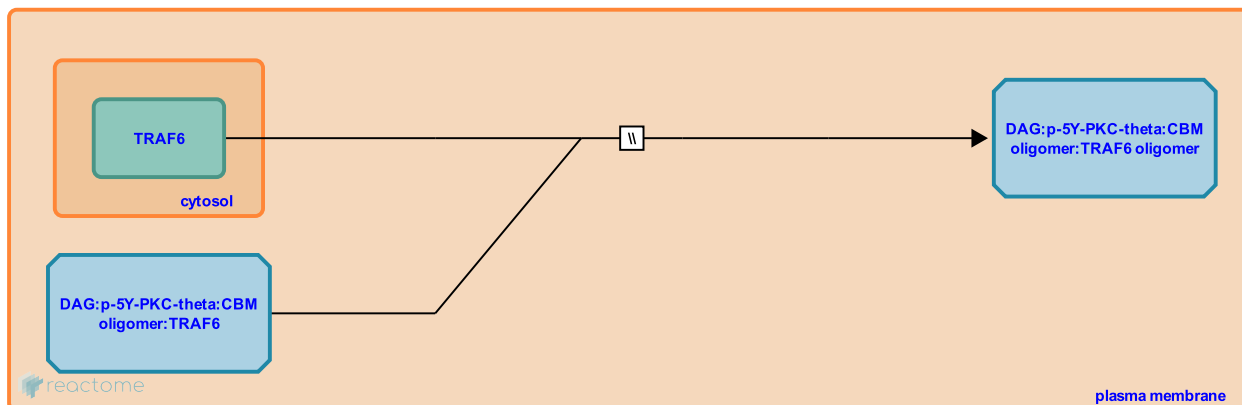
Location: FCERI mediated NF-kB activation

Stable identifier: R-BTA-2730903

Type: omitted

Compartments: plasma membrane, cytosol

Inferred from: Oligomerization of TRAF6 (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.](/electronic_inference_compara.html) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

Preceded by: Recruitment of TRAF6 to CBM complex by binding to MALT1

Activation of TAK1 complex bound to pUb-TRAF6 ↗

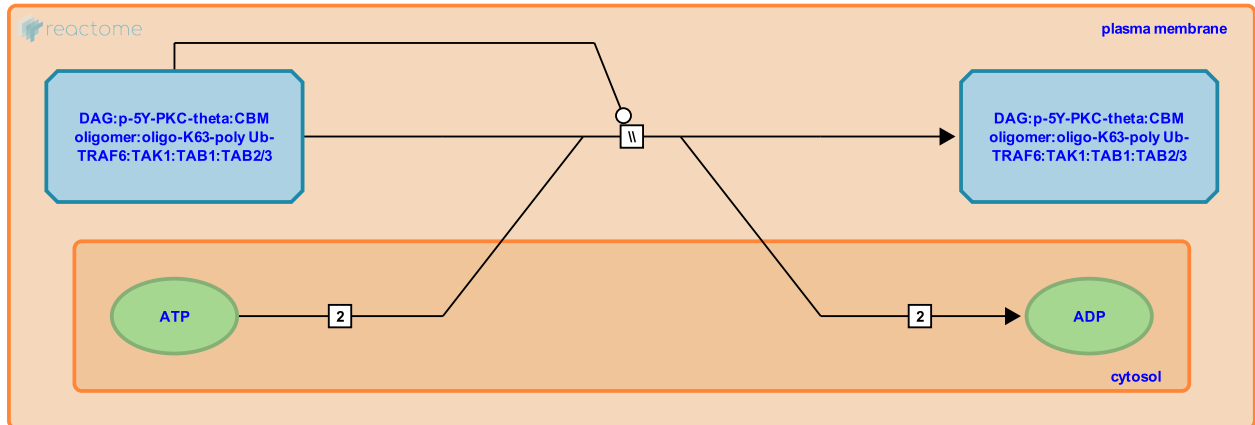
Location: FCERI mediated NF-kB activation

Stable identifier: R-BTA-2730900

Type: omitted

Compartments: plasma membrane, cytosol

Inferred from: Activation of TAK1 complex bound to pUb-TRAF6 (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.](/electronic_inference_compara.html) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

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