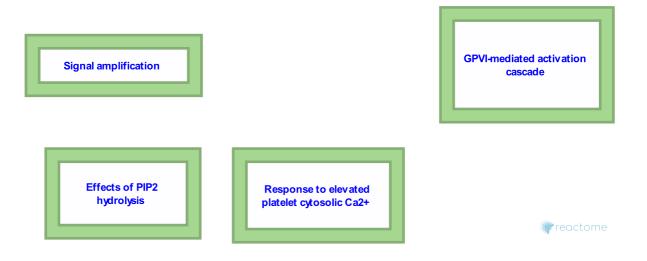


# Platelet activation, signaling and aggrega-

tion



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>.

16/05/2024

# 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

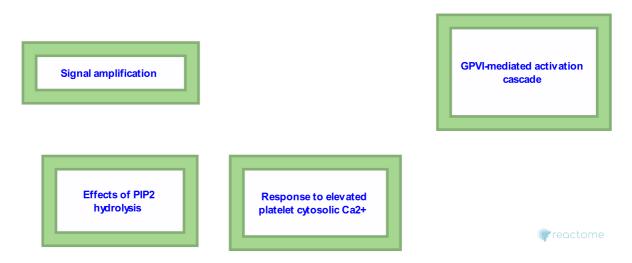
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This document contains 5 pathways (see Table of Contents)

# Platelet activation, signaling and aggregation 7

#### Stable identifier: R-SPO-76002

Inferred from: Platelet activation, signaling and aggregation (Homo sapiens)



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

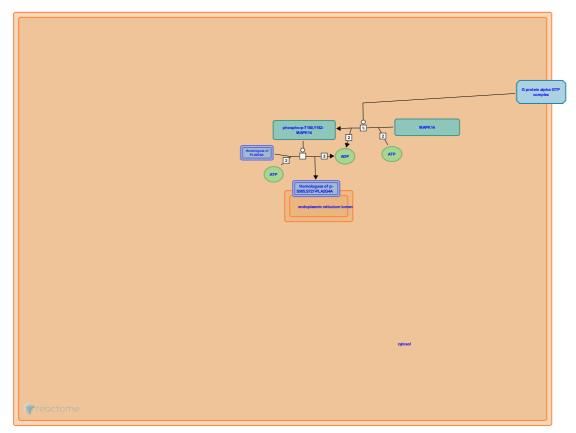
The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events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

# Signal amplification 7

Location: Platelet activation, signaling and aggregation

#### Stable identifier: R-SPO-392518

Inferred from: Signal amplification (Homo sapiens)



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

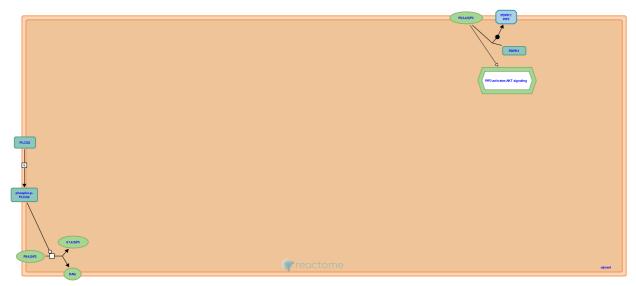
The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events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

### GPVI-mediated activation cascade *对*

Location: Platelet activation, signaling and aggregation

#### Stable identifier: R-SPO-114604

Inferred from: GPVI-mediated activation cascade (Homo sapiens)



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

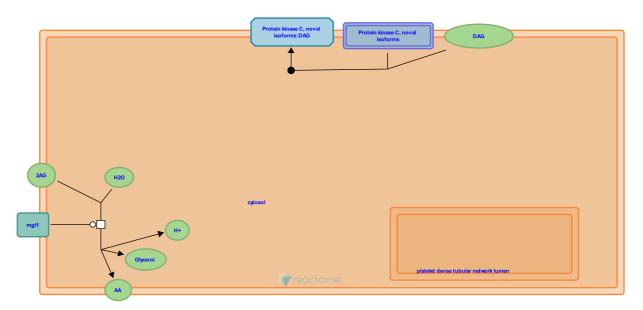
The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events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

## Effects of PIP2 hydrolysis 7

Location: Platelet activation, signaling and aggregation

#### Stable identifier: R-SPO-114508

#### Inferred from: Effects of PIP2 hydrolysis (Homo sapiens)



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

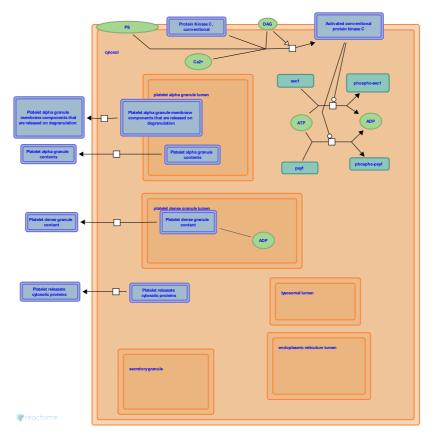
The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events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

## Response to elevated platelet cytosolic Ca2+ 7

Location: Platelet activation, signaling and aggregation

Stable identifier: R-SPO-76005

Inferred from: Response to elevated platelet cytosolic Ca2+ (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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