Platelet activation, signaling and aggregation

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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


Reactome database release: 72

This document contains 8 pathways (see Table of Contents)
**Platelet activation, signaling and aggregation**

**Stable identifier:** R-XTR-76002

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

![Diagram](https://release.reactome.org)

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](http://www.pantherdb.org/about.jsp)
GP1b-IX-V activation signalling

**Location:** Platelet activation, signaling and aggregation

**Stable identifier:** R-XTR-430116

**Compartments:** plasma membrane

**Inferred from:** GP1b-IX-V activation signalling (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
**Signal amplification**

**Location:** Platelet activation, signaling and aggregation

**Stable identifier:** R-XTR-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/parologue (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.

<a href='/electronic_inference_compara.html' target = 'NEW'>More details and caveats of the event inference in Reactome. For details on PANTHER see also: <a href='http://www.pantherdb.org/about.jsp' target='NEW'>http://www.pantherdb.org/about.jsp</a>
Thrombin signalling through proteinase activated receptors (PARs)

**Location:** Platelet activation, signaling and aggregation

**Stable identifier:** R-XTR-456926

**Compartments:** plasma membrane

**Inferred from:** Thrombin signalling through proteinase activated receptors (PARs) (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
**GPVI-mediated activation cascade**

**Location:** Platelet activation, signaling and aggregation

**Stable identifier:** R-XTR-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.

[a href='/electronic_inference_compara.html' target='NEW']More details and caveats of the event inference in Reactome. For details on PANTHER see also: [a href='http://www.pantherdb.org/about.jsp' target='NEW']http://www.pantherdb.org/about.jsp
Platelet Aggregation (Plug Formation)

Location: Platelet activation, signaling and aggregation

Stable identifier: R-XTR-76009

Inferred from: Platelet Aggregation (Plug Formation) (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
Effects of PIP2 hydrolysis

Location: Platelet activation, signaling and aggregation

Stable identifier: R-XTR-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.

More details and caveats of the event inference in Reactome. For details on PANTHER see also: http://www.pantherdb.org/about.jsp
Response to elevated platelet cytosolic Ca2+ ↗

**Location:** Platelet activation, signaling and aggregation

**Stable identifier:** R-XTR-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.

<a href='/electronic_inference_compara.html' target = 'NEW'>More details and caveats of the event inference in Reactome. For details on PANTHER see also: <a href='http://www.pantherdb.org/about.jsp' target='NEW'>http://www.pantherdb.org/about.jsp

https://release.reactome.org
# Table of Contents

- Introduction ........................................... 1
- Platelet activation, signaling and aggregation ........ 2
  - GP1b-IX-V activation signalling .................. 3
  - Signal amplification ................................ 4
- Thrombin signalling through proteinase activated receptors (PARs) ...... 5
- GPVI-mediated activation cascade ................... 6
- Platelet Aggregation (Plug Formation) ............... 7
- Effects of PIP2 hydrolysis ............................ 8
- Response to elevated platelet cytosolic Ca2+ .......... 9

Table of Contents ..................................... 10