Signal regulatory protein family interactions

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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 Reactome Textbook.

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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: 83

This document contains 1 pathway and 7 reactions (see Table of Contents)
**Signal regulatory protein family interactions**

**Stable identifier:** R-BTA-391160

**Compartments:** plasma membrane

**Inferred from:** Signal regulatory protein family interactions (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.

For more details and caveats of the event inference in Reactome, visit [Reactome](https://reactome.org). For details on PANTHER, visit [http://www.pantherdb.org/about.jsp](http://www.pantherdb.org/about.jsp)
SIRP alpha binds CD47

**Location:** Signal regulatory protein family interactions

**Stable identifier:** R-BTA-391158

**Type:** binding

**Compartments:** plasma membrane

**Inferred from:** SIRP alpha binds CD47 (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
**p-4Y-SIRPA:CD47 binds SKAP2**

**Location:** Signal regulatory protein family interactions

**Stable identifier:** R-BTA-391157

**Type:** binding

**Compartments:** plasma membrane, cytosol

**Inferred from:** p-4Y-SIRPA:CD47 binds SKAP2 (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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p-4Y-SIRPA:CD47:SKAP2 binds FYB

**Location:** Signal regulatory protein family interactions

**Stable identifier:** R-BTA-391151

**Type:** binding

**Compartments:** plasma membrane, cytosol

**Inferred from:** p-4Y-SIRPA:CD47:SKAP2 binds FYB (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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p-4Y-SIRPA:CD47 binds PTK2B

**Location:** Signal regulatory protein family interactions

**Stable identifier:** R-BTA-391152

**Type:** binding

**Compartments:** plasma membrane, cytosol

**Inferred from:** p-4Y-SIRPA:CD47 binds PTK2B (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](http://www.pantherdb.org/about.jsp)
**p-4Y-SIRPA:CD47 binds GRB2-1**

**Location:** Signal regulatory protein family interactions

**Stable identifier:** R-BTA-391153

**Type:** binding

**Compartments:** plasma membrane, cytosol

**Inferred from:** p-4Y-SIRPA:CD47 binds GRB2-1 (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)
**SIRPA binds SFTPA oligomer, SFTPD oligomer**

**Location:** Signal regulatory protein family interactions

**Stable identifier:** R-BTA-391155

**Type:** binding

**Compartments:** plasma membrane, extracellular region

**Inferred from:** SIRPA binds SFTPA oligomer, SFTPD oligomer (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 Physical Entities (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
SIRP gamma binds CD47

**Location:** Signal regulatory protein family interactions

**Stable identifier:** R-BTA-391168

**Type:** binding

**Compartments:** plasma membrane

**Inferred from:** SIRP gamma binds CD47 (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
Table of Contents

Introduction  1

Signal regulatory protein family interactions  2
  SIRP alpha binds CD47  3
  p-4Y-SIRPA:CD47 binds SKAP2  4
  p-4Y-SIRPA:CD47:SKAP2 binds FYB  5
  p-4Y-SIRPA:CD47 binds PTK2B  6
  p-4Y-SIRPA:CD47 binds GRB2-1  7
  SIRPA binds SFTPA oligomer, SFTPD oligomer  8
  SIRP gamma binds CD47  9

Table of Contents  10