ER-Phagosome pathway

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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: 70

This document contains 1 pathway and 4 reactions (see Table of Contents)
**ER-Phagosome pathway**

**Stable identifier:** R-RNO-1236974

**Inferred from:** ER-Phagosome pathway (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
Transport of SEC22B, TAP and PLC from ER to ERGIC

Location: ER-Phagosome pathway

Stable identifier: R-RNO-8863914

Type: transition

Compartments: endoplasmic reticulum-Golgi intermediate compartment membrane, endoplasmic reticulum membrane, integral component of lumenal side of endoplasmic reticulum membrane

Inferred from: Transport of SEC22B, TAP and PLC from ER to ERGIC (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: SEC22B, CALR, STX4, TAP and TAPBP bind
SEC22B, CALR, STX4, TAP and TAPBP bind

Location: ER-Phagosome pathway

Stable identifier: R-RNO-8863858

Type: binding

Compartments: endoplasmic reticulum-Golgi intermediate compartment membrane, phagocytic vesicle membrane

Inferred from: SEC22B, CALR, STX4, TAP and TAPBP bind (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.

More details and caveats of the event inference in Reactome. For details on PANTHER see also:

Preceded by: Transport of SEC22B, TAP and PLC from ER to ERGIC

Followed by: CALR, TAP, TAPBP dissociate from SEC22B:STX4
CALR, TAP, TAPBP dissociate from SEC22B:STX4

**Location:** ER-Phagosome pathway

**Stable identifier:** R-RNO-8951595

**Type:** dissociation

**Compartments:** endoplasmic reticulum-Golgi intermediate compartment membrane, phagocytic vesicle membrane

**Inferred from:** CALR, TAP, TAPBP dissociate from SEC22B:STX4 (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.</a> For details on PANTHER see also: <a href='http://www.pantherdb.org/about.jsp' target='NEW'>http://www.pantherdb.org/about.jsp</a>

**Preceded by:** SEC22B, CALR, STX4, TAP and TAPBP bind
Export of peptide loaded MHC class I complex to PM

**Location:** ER-Phagosome pathway

**Stable identifier:** R-RNO-1236965

**Type:** omitted

**Compartments:** phagocytic vesicle membrane, plasma membrane

**Inferred from:** Export of peptide loaded MHC class I complex to PM (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.

More details and caveats of the event inference in Reactome. For details on PANTHER see also: http://www.pantherdb.org/about.jsp
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