Binding and Uptake of Ligands by Scavenger Receptors

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

The contents of this document may be freely copied and distributed in any media, provided the authors, plus the institutions, are credited, as stated under the terms of Creative Commons Attribution 4.0 International (CC BY 4.0) License. For more information see our license.

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.

29/12/2022
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


Reactome database release: 83

This document contains 5 pathways (see Table of Contents)
Binding and Uptake of Ligands by Scavenger Receptors

Stable identifier: R-CFA-2173782

Compartments: extracellular region, plasma membrane, endocytic vesicle membrane

Inferred from: Binding and Uptake of Ligands by Scavenger Receptors (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
Scavenging of heme from plasma

Location: Binding and Uptake of Ligands by Scavenger Receptors

Stable identifier: R-CFA-2168880

Compartments: plasma membrane, extracellular region, endocytic vesicle membrane

Inferred from: Scavenging of heme from plasma (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
Scavenging by Class A Receptors

Location: Binding and Uptake of Ligands by Scavenger Receptors

Stable identifier: R-CFA-3000480

Compartments: plasma membrane, extracellular region, endocytic vesicle membrane

Inferred from: Scavenging by Class A Receptors (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.reactome.org
Scavenging by Class B Receptors

Location: Binding and Uptake of Ligands by Scavenger Receptors

Stable identifier: R-CFA-3000471

Compartments: plasma membrane, extracellular region, endocytic vesicle membrane

Inferred from: Scavenging by Class B Receptors (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
**Scavenging by Class H Receptors**

**Location:** Binding and Uptake of Ligands by Scavenger Receptors

**Stable identifier:** R-CFA-3000497

**Compartments:** plasma membrane, extracellular region, endocytic vesicle membrane

**Inferred from:** Scavenging by Class H Receptors (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

- Binding and Uptake of Ligands by Scavenger Receptors 2
  - Scavenging of heme from plasma 3
  - Scavenging by Class A Receptors 4
  - Scavenging by Class B Receptors 5
  - Scavenging by Class H Receptors 6

Table of Contents 7