

Innate Immune System



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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>.

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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

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This document contains 15 pathways (see Table of Contents)

Innate Immune System 7

Stable identifier: R-GGA-168249

Inferred from: Innate Immune System (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.

Toll-like Receptor Cascades 7

Location: Innate Immune System

Stable identifier: R-GGA-168898

Inferred from: Toll-like Receptor Cascades (Homo sapiens)



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

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Complement cascade 7

Location: Innate Immune System

Stable identifier: R-GGA-166658

Compartments: plasma membrane, extracellular region

Inferred from: Complement cascade (Homo sapiens)



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

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Nucleotide-binding domain, leucine rich repeat containing receptor (NLR) signaling pathways 7

Location: Innate Immune System

Stable identifier: R-GGA-168643

Compartments: cytosol

Inferred from: Nucleotide-binding domain, leucine rich repeat containing receptor (NLR) signaling pathways (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.

Advanced glycosylation endproduct receptor signaling 7

Location: Innate Immune System

Stable identifier: R-GGA-879415

Compartments: plasma membrane, extracellular region

Inferred from: Advanced glycosylation endproduct receptor signaling (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.

DDX58/IFIH1-mediated induction of interferon-alpha/beta 7

Location: Innate Immune System

Stable identifier: R-GGA-168928

Compartments: mitochondrial outer membrane

Inferred from: DDX58/IFIH1-mediated induction of interferon-alpha/beta (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.

Cytosolic sensors of pathogen-associated DNA 🛪

Location: Innate Immune System

Stable identifier: R-GGA-1834949

Inferred from: Cytosolic sensors of pathogen-associated DNA (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.

Fcgamma receptor (FCGR) dependent phagocytosis 7

Location: Innate Immune System

Stable identifier: R-GGA-2029480

Inferred from: Fcgamma receptor (FCGR) dependent phagocytosis (Homo sapiens)



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DAP12 interactions 7

Location: Innate Immune System

Stable identifier: R-GGA-2172127

Inferred from: DAP12 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.

Fc epsilon receptor (FCERI) signaling 7

Location: Innate Immune System

Stable identifier: R-GGA-2454202

Compartments: plasma membrane

Inferred from: Fc epsilon receptor (FCERI) signaling (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.

C-type lectin receptors (CLRs) ↗

Location: Innate Immune System

Stable identifier: R-GGA-5621481

Compartments: plasma membrane, nucleoplasm, cytosol

Inferred from: C-type lectin receptors (CLRs) (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.

Antimicrobial peptides 7

Location: Innate Immune System

Stable identifier: R-GGA-6803157

Inferred from: Antimicrobial peptides (Homo sapiens)



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

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Neutrophil degranulation 7

Location: Innate Immune System

Stable identifier: R-GGA-6798695

Inferred from: Neutrophil degranulation (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.

ROS and RNS production in phagocytes *对*

Location: Innate Immune System

Stable identifier: R-GGA-1222556

Inferred from: ROS and RNS production in phagocytes (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.

Alpha-protein kinase 1 signaling pathway **↗**

Location: Innate Immune System

Stable identifier: R-GGA-9645460

Compartments: cytosol

Inferred from: Alpha-protein kinase 1 signaling 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.

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