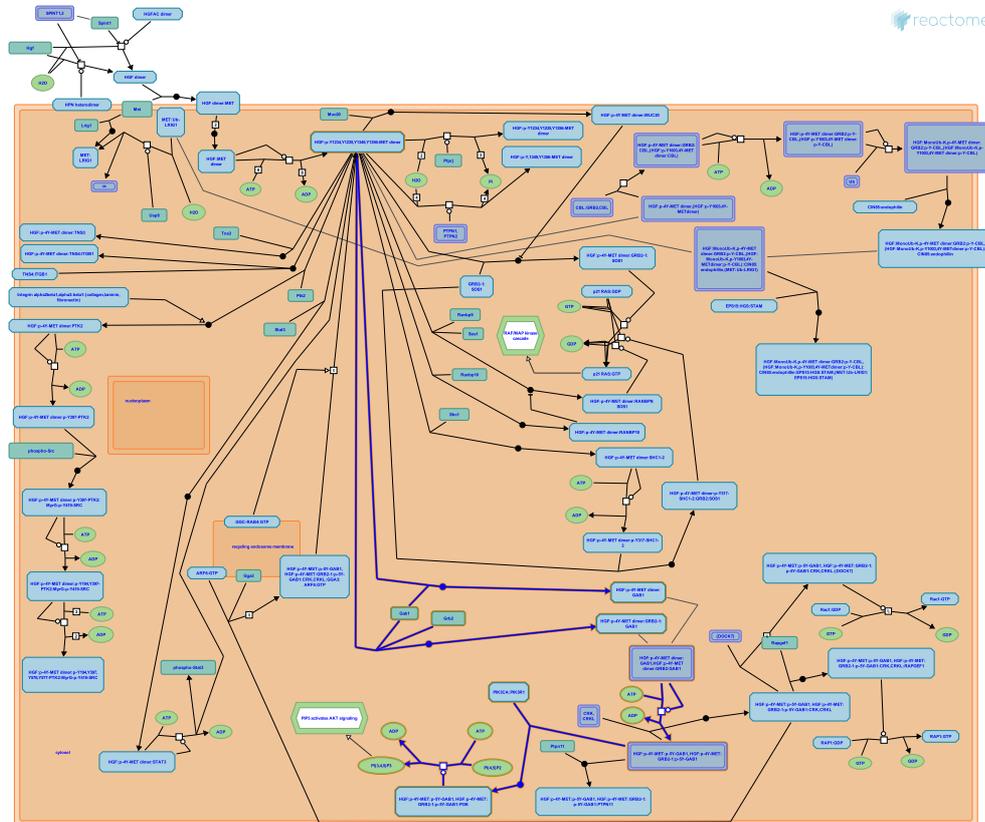


MET activates PI3K/AKT signaling



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

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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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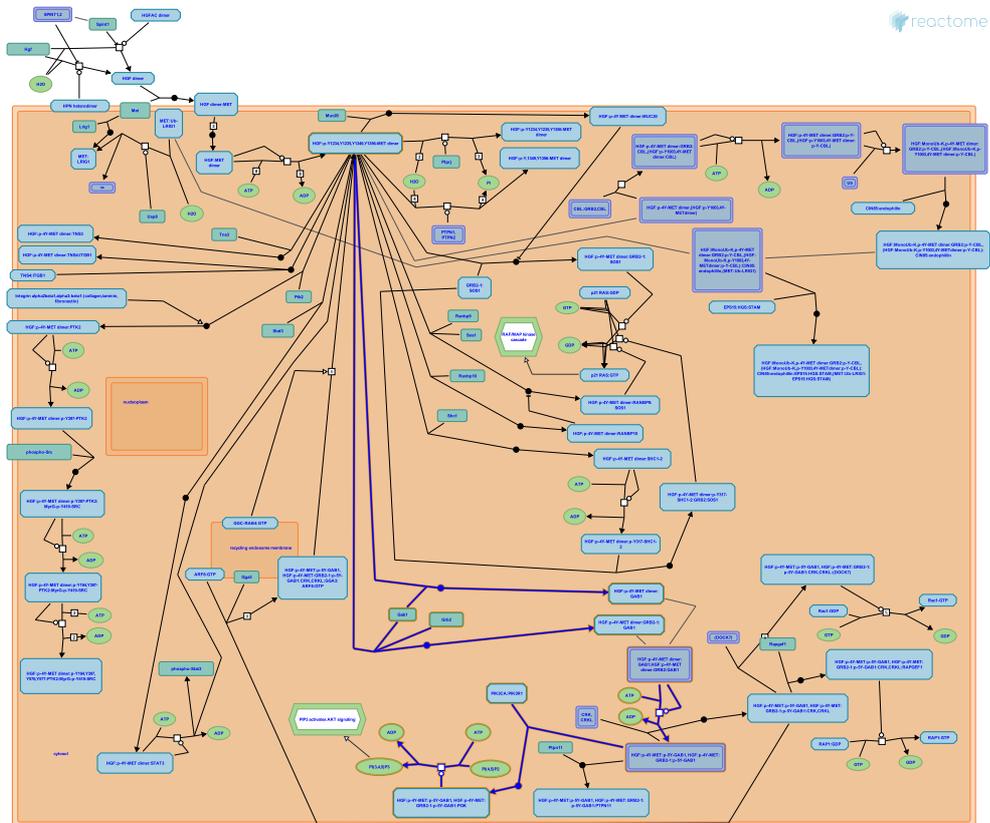
Reactome database release: 76

This document contains 1 pathway and 5 reactions ([see Table of Contents](#))

MET activates PI3K/AKT signaling ↗

Stable identifier: R-MMU-8851907

Inferred from: MET activates PI3K/AKT 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.

[More details and caveats of the event inference in Reactome.](/electronic_inference_compara.html) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

Activated MET binds GAB1 ↗

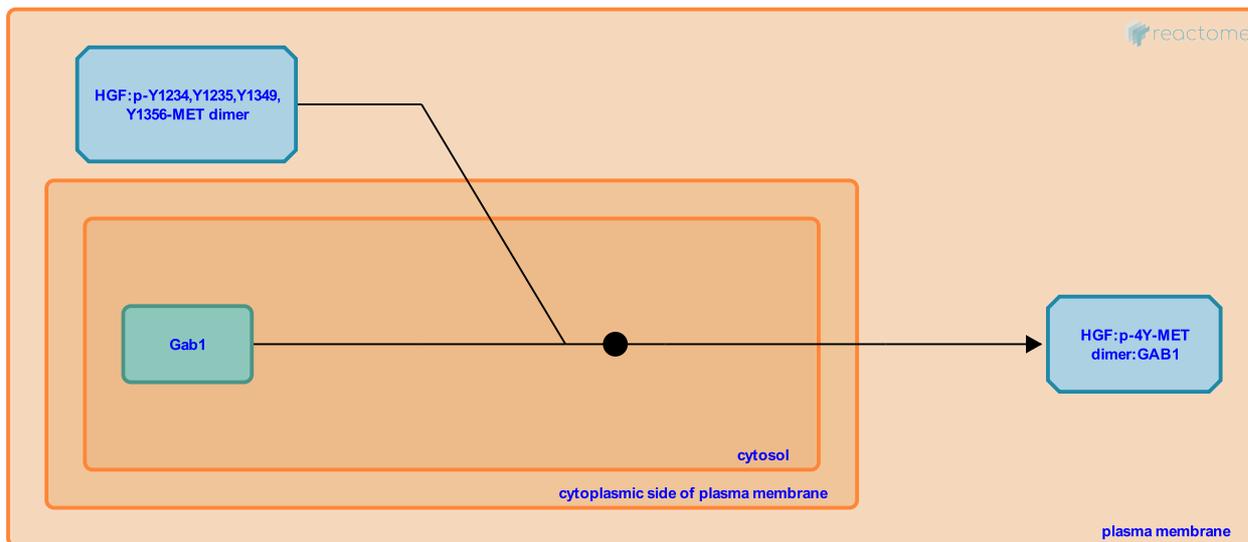
Location: MET activates PI3K/AKT signaling

Stable identifier: R-MMU-8851908

Type: binding

Compartments: cytosol, plasma membrane

Inferred from: Activated MET binds GAB1 (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: MET phosphorylates GAB1

Activated MET binds GAB1 and GRB2 ↗

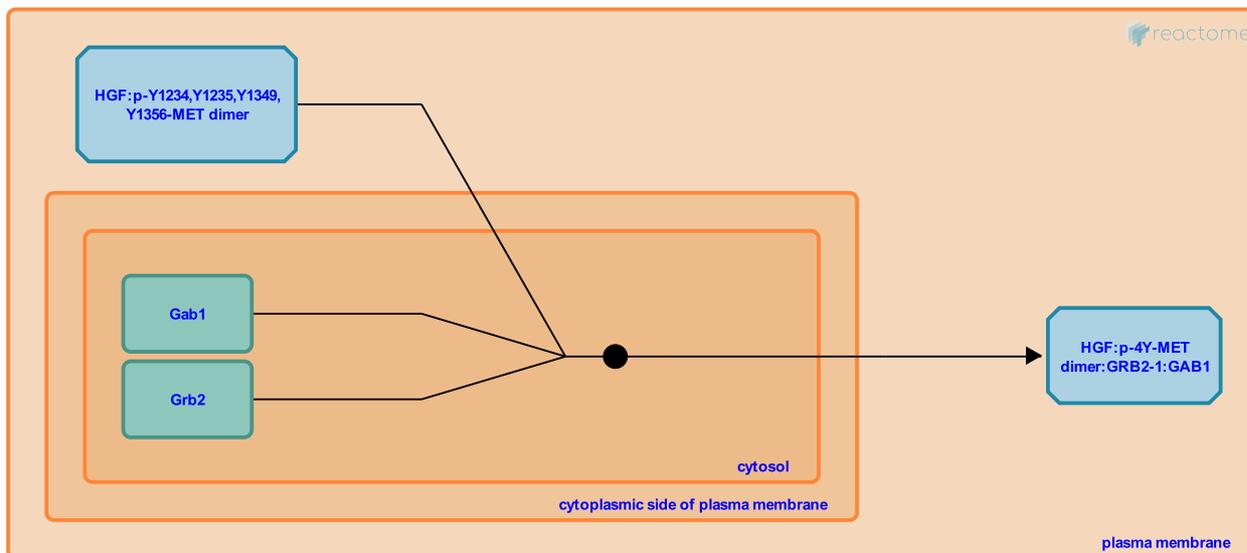
Location: MET activates PI3K/AKT signaling

Stable identifier: R-MMU-8851919

Type: binding

Compartments: cytosol, plasma membrane

Inferred from: Activated MET binds GAB1 and GRB2 (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.](/electronic_inference_compara.html) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

Followed by: MET phosphorylates GAB1

MET phosphorylates GAB1 ↗

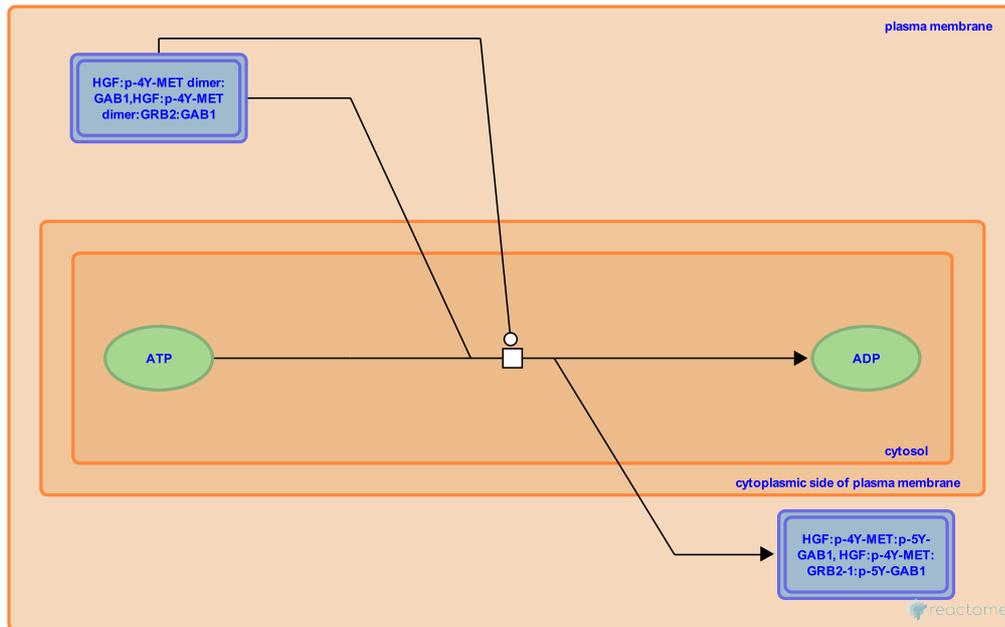
Location: MET activates PI3K/AKT signaling

Stable identifier: R-MMU-8851933

Type: transition

Compartments: cytosol, plasma membrane

Inferred from: MET phosphorylates GAB1 (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.](/electronic_inference_compara.html) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

Preceded by: Activated MET binds GAB1, Activated MET binds GAB1 and GRB2

Followed by: Phosphorylated GAB1 recruits PI3K to MET

Phosphorylated GAB1 recruits PI3K to MET ↗

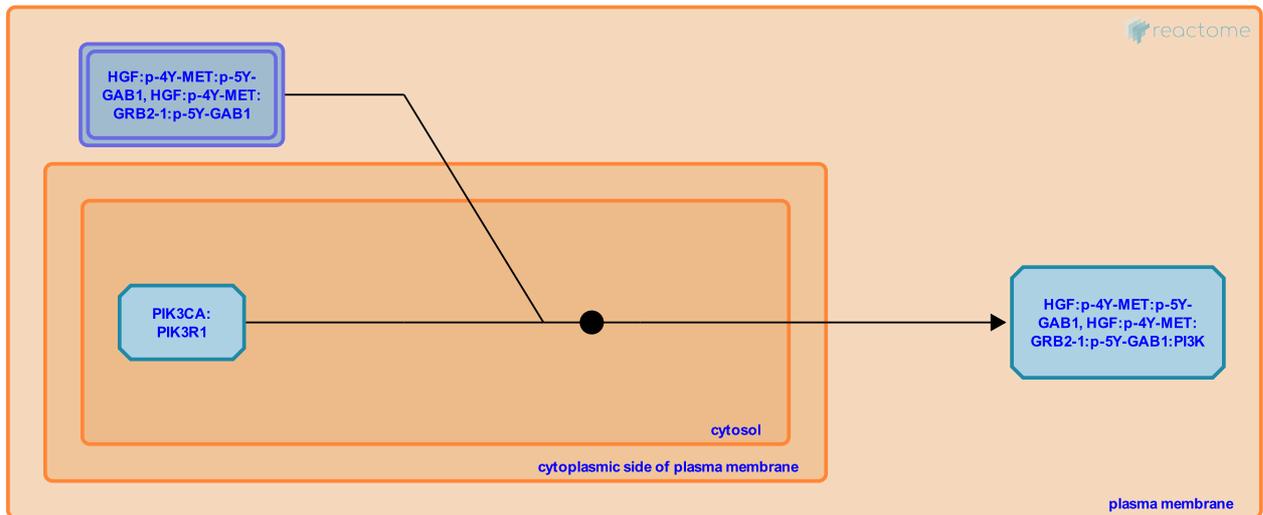
Location: MET activates PI3K/AKT signaling

Stable identifier: R-MMU-8851954

Type: binding

Compartments: cytosol, plasma membrane

Inferred from: Phosphorylated GAB1 recruits PI3K to MET (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.](/electronic_inference_compara.html) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

Preceded by: MET phosphorylates GAB1

Followed by: MET bound PI3K generates PIP3

MET bound PI3K generates PIP3 ↗

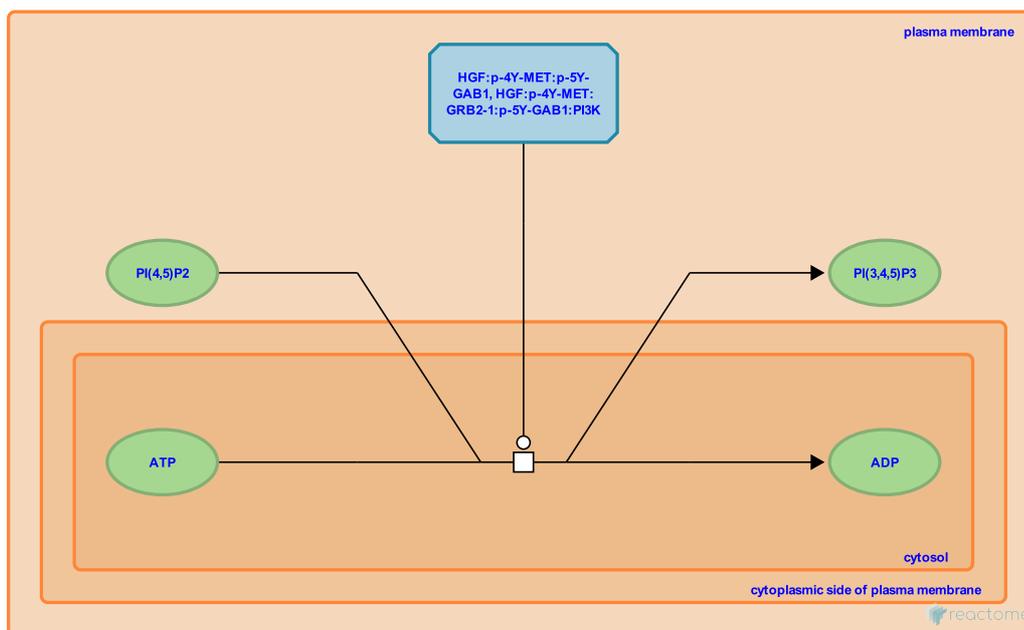
Location: MET activates PI3K/AKT signaling

Stable identifier: R-MMU-8852019

Type: transition

Compartments: cytosol, plasma membrane

Inferred from: MET bound PI3K generates PIP3 (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.](/electronic_inference_compara.html) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

Preceded by: Phosphorylated GAB1 recruits PI3K to MET

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