

Phosphorylation of INFAR1 by TYK2

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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: 88

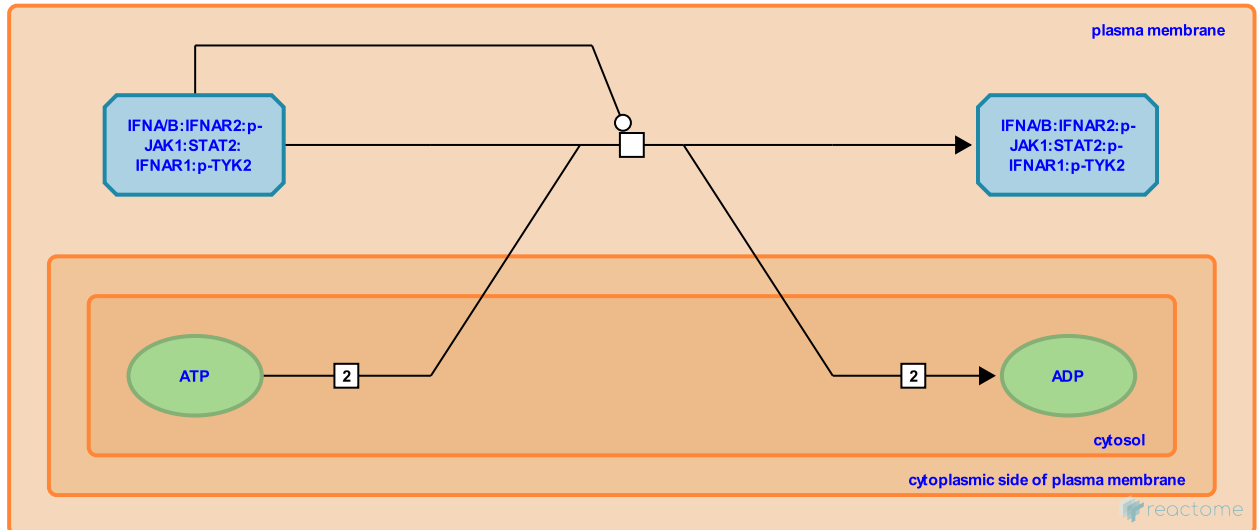
This document contains 1 reaction ([see Table of Contents](#))

Phosphorylation of IFNAR1 by TYK2 [↗](#)

Stable identifier: R-HSA-909730

Type: transition

Compartments: cytosol, plasma membrane



TYK2 functions as part of a receptor complex to trigger intracellular signaling in response to IFN α /B. TYK2 bound to IFNAR1 subunit is activated in response to IFN α /B treatment and this in turn phosphorylates two tyrosine residues Y466 and Y481 in the juxta-membrane region of IFNAR1.

Literature references

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Editions

2010-07-07	Authored, Edited	Garapati, P V.
2010-08-17	Reviewed	Schindler, C., Abdul-Sater, AA.