

IL35 binds IL12RB2:IL12RB2 receptor

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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

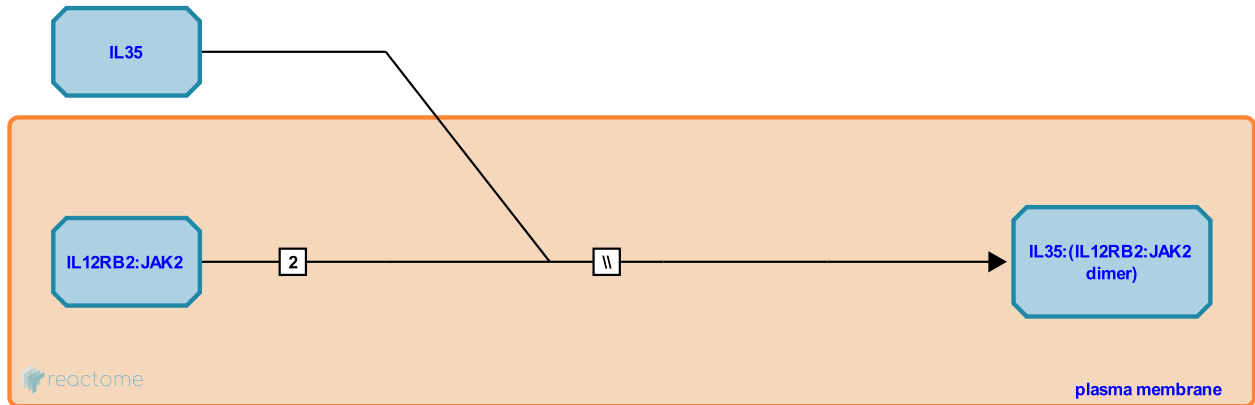
This document contains 1 reaction ([see Table of Contents](#))

IL35 binds IL12RB2:IL12RB2 receptor [↗](#)

Stable identifier: R-HSA-8983519

Type: omitted

Compartments: plasma membrane, extracellular region, cytosol



Interleukin 35 (IL35) is a heteromeric complex conformed by Interleukin 12 subunit alpha (IL12A) and Interleukin 27 subunit alpha (IL27). IL35 may presumably stimulate Janus Kinase (JAK) bound homodimers of Interleukin 12 receptor beta 2 (IL12RB2). JAKs are believed to be associated with the receptor before receptor activation (Behrmann et al., 2004). Subsequently, this triggers the phosphorylation of STAT4 downstream. The physiological consequence of this signalling is the suppression of T cell response. The event is represented as a black box due to the incomplete knowledge about the ligand binding to monomers followed by dimerization or binding directly to the dimers.

Literature references

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Editions

2016-12-15	Authored, Edited	Varusai, TM.
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