

CIN85 dissociates from EGF:p-6Y- EGFR:CBL:Beta-Pix:CDC42:GTP:CIN85

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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

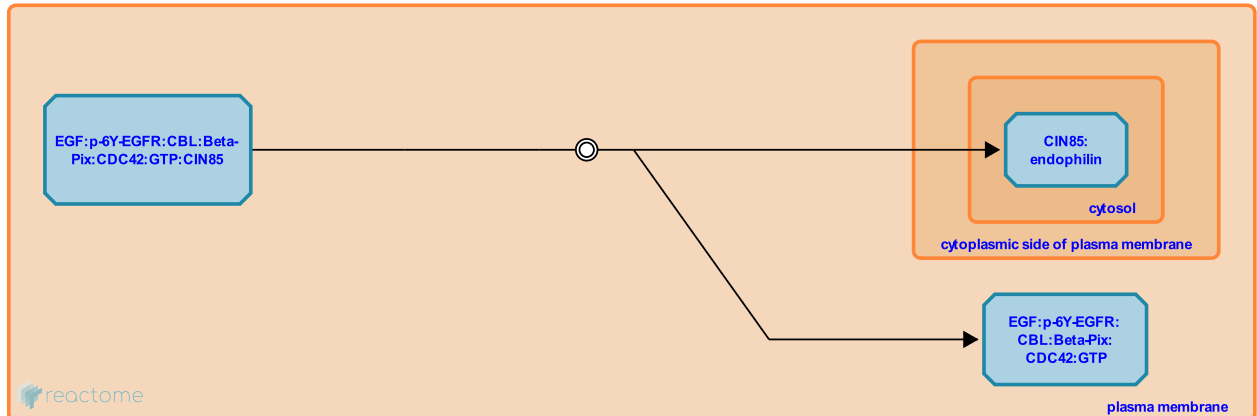
This document contains 1 reaction ([see Table of Contents](#))

CIN85 dissociates from EGF:p-6Y-EGFR:CBL:Beta-Pix: CDC42:GTP: CIN85 [↗](#)

Stable identifier: R-HSA-8951490

Type: dissociation

Compartments: cytosol, plasma membrane



High concentrations of active CDC42 (bound to GTP) and Beta-Pix may promote the binding of Beta-Pix to CBL, pushing out the usually preferred binding partner CIN85 (SH3KBP1) from the CBL complex. This competitive mechanism could block the CIN85-imposed clustering phenomenon on CBL that is required for tighter binding (Schmidt et al. 2006).

Literature references

Schmidt, MH., Szymkiewicz, I., Husnjak, K., Dikic, I., Haglund, K. (2006). Cbl escapes Cdc42-mediated inhibition by downregulation of the adaptor molecule betaPix. *Oncogene*, 25, 3071-8. [↗](#)

Editions

2006-10-10	Authored	Castagnoli, L.
2008-02-12	Reviewed	Heldin, CH.
2016-12-07	Edited	Jassal, B.