

PTPN18 binds ERBB2:EGFR heterodimers

Ayoub, E., Orlic-Milacic, M., Tremblay, M.

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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- Fabregat, A., Jupe, S., Matthews, L., Sidiropoulos, K., Gillespie, M., Garapati, P. et al. (2018). The Reactome Pathway Knowledgebase. *Nucleic Acids Res*, 46, D649-D655. [↗](#)
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Reactome database release: 88

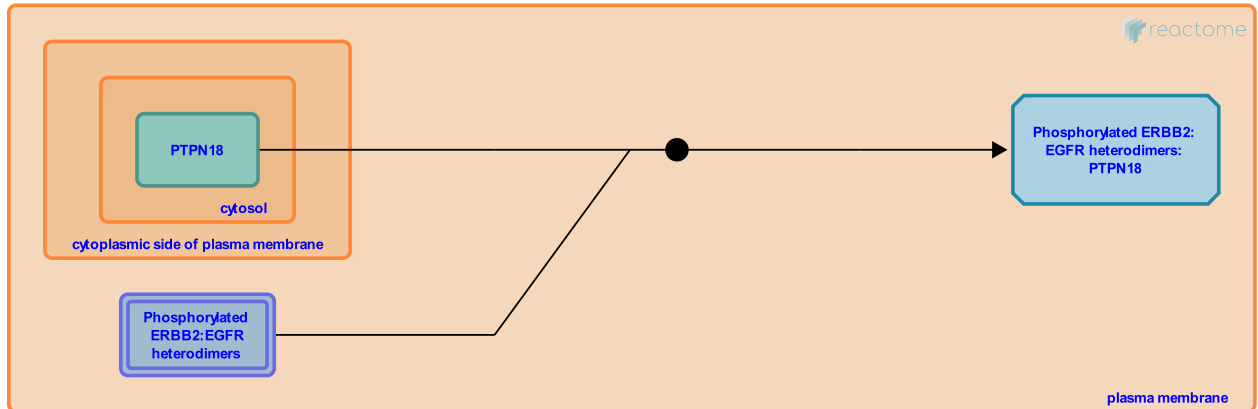
This document contains 1 reaction ([see Table of Contents](#))

PTPN18 binds ERBB2:EGFR heterodimers [↗](#)

Stable identifier: R-HSA-8864105

Type: binding

Compartments: cytosol, plasma membrane



PTPN18 protein tyrosine phosphatase (BDP1) binds ERBB2, activated in response to EGF stimulation, via PEST and catalytic domains of PTPN18 (Wang et al. 2014).

Literature references

Yang, F., Zhang, Y., Yang, DX., Wang, HM., Ning, SL., Sun, JP. et al. (2014). The catalytic region and PEST domain of PTPN18 distinctly regulate the HER2 phosphorylation and ubiquitination barcodes. *Cell Res.*, 24, 1067-90. [↗](#)

Editions

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