

p75NTR interacts with the NOGO 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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- Sidiropoulos, K., Viteri, G., Sevilla, C., Jupe, S., Webber, M., Orlic-Milacic, M. et al. (2017). Reactome enhanced pathway visualization. *Bioinformatics*, 33, 3461-3467. [↗](#)
- 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. [↗](#)
- Fabregat, A., Korninger, F., Viteri, G., Sidiropoulos, K., Marin-Garcia, P., Ping, P. et al. (2018). Reactome graph database: Efficient access to complex pathway data. *PLoS computational biology*, 14, e1005968. [↗](#)

Reactome database release: 88

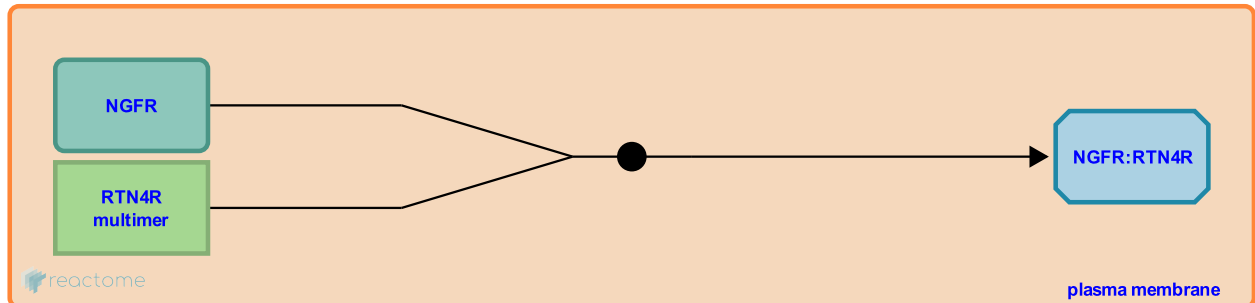
This document contains 1 reaction ([see Table of Contents](#))

p75NTR interacts with the NOGO receptor [↗](#)

Stable identifier: R-HSA-193636

Type: binding

Compartments: plasma membrane



The p75NTR extracellular domain interacts with NOGO receptor (NgR), a glycosyl phosphatidylinositol (GPI)-anchored protein present as a homomultimer at the cell surface. As NgR lacks an intracellular domain, it utilizes p75NTR as a co-receptor for intracellular signalling.

Literature references

Strittmatter, SM., Fournier, AE., GrandPre, T. (2001). Identification of a receptor mediating Nogo-66 inhibition of axonal regeneration. *Nature*, 409, 341-6. [↗](#)

Editions

2006-10-10	Authored	Annibali, D., Nasi, S.
2008-05-20	Reviewed	Friedman, WJ.
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2008-05-28	Reviewed	Chao, MV.