SORL1 transports APP(18-770) from endosome lumen to Golgi lumen

D'Eustachio, P., Jassal, B.
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.

The development of Reactome is supported by grants from the US National Institutes of Health (P41 HG003751), University of Toronto (CFREF Medicine by Design), European Union (EU STRP, EMI-CD), and the European Molecular Biology Laboratory (EBI Industry program).

Literature references


Reactome database release: 83

This document contains 1 reaction (see Table of Contents)

https://reactome.org
**SORL1 transports APP(18-770) from endosome lumen to Golgi lumen**

**Stable identifier:** R-HSA-8871506

**Type:** transition

**Compartments:** Golgi membrane, endosome membrane

The sortilin-related receptor (SORL1) is expressed mainly in brain, where it is most abundant in the cerebellum, cerebral cortex and the occipital pole. It acts as a sorting receptor that mediates anterograde and retrograde movement of APP between the trans-Golgi network and early endosomes, thereby restricting delivery of the APP precursor to endocytic compartments that favour amyloidogenic peptide production (Andersen et al. 2005, Willnow & Andersen 2013, Yin et al. 2015, Hermey 2015). Targeting SORL1 might present novel opportunities for Alzheimer’s disease therapy.

**Literature references**


**Editions**

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<td>Authored, Edited</td>
<td>Jassal, B.</td>
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<td>2016-07-15</td>
<td>Reviewed</td>
<td>D'Eustachio, P.</td>
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