

Exogenous soluble antigen targeted to more stable early endosome

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https://reactome.org

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)

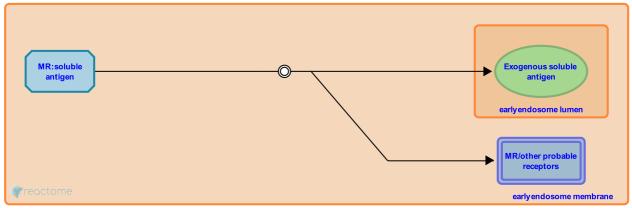
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Stable identifier: R-HSA-1236940

Type: dissociation

Compartments: early endosome lumen, early endosome membrane



Within the endosome the receptor and cargo separate and the receptor recycles back to the cell surface. Soluble antigens are targeted into the stable early endosome lumen for efficient cross presentation. Early endosomes are mildly acidic and relatively poor in proteases.

Literature references

Ackerman, AL., Kyritsis, C., Cresswell, P., Tampé, R. (2005). Access of soluble antigens to the endoplasmic reticulum can explain cross-presentation by dendritic cells. *Nat Immunol, 6*, 107-13.

Editions

2011-03-28	Authored, Edited	Garapati, P V.
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