Endocytosis of protein 3a

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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


Reactome database release: 77

This document contains 1 reaction (see Table of Contents)
**Endocytosis of protein 3a**

**Stable identifier:** R-HSA-9694727

**Type:** omitted

**Compartments:** plasma membrane, endocytic vesicle membrane

**Diseases:** COVID-19

**Inferred from:** Endocytosis of protein 3a (Homo sapiens)

This COVID-19 event has been created by a combination of computational inference (see https://reactome.org/documentation/inferred-events) from SARS-CoV-1 data and manual curation, as described in the summation for the overall SARS-CoV-2 infection pathway.

Protein 3a is rapidly internalized into cells by endocytosis. It contains a Yxxφ motif and also diacidic motifs which are typically found in internalized membrane proteins (Tan et al, 2004). The ability to be internalized is necessary for the protein's pro-apoptotic function (Wong et al, 2006; Chan et al, 2009).

**Literature references**


**Editions**

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