

Accepted Manuscript

Title: Most rotavirus strains require the cation-independent mannose-6-phosphate receptor, sortilin-1, and cathepsins to enter cells

Authors: Marco A. Díaz-Salinas, Luis A. Casorla, Tomás López, Susana López, Carlos F. Arias



PII: S0168-1702(17)30693-7
DOI: <https://doi.org/10.1016/j.virusres.2017.12.002>
Reference: VIRUS 97307

To appear in: *Virus Research*

Received date: 10-9-2017
Revised date: 4-12-2017
Accepted date: 6-12-2017

Please cite this article as: Díaz-Salinas, Marco A., Casorla, Luis A., López, Tomás, López, Susana, Arias, Carlos F., Most rotavirus strains require the cation-independent mannose-6-phosphate receptor, sortilin-1, and cathepsins to enter cells. *Virus Research* <https://doi.org/10.1016/j.virusres.2017.12.002>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Modified manuscript (VIRUS_2017_496)

Most rotavirus strains require the cation-independent mannose-6-phosphate receptor, sortilin-1, and cathepsins to enter cells

Marco A. Díaz-Salinas^a, Luis A. Casorla, Tomás López, Susana López and Carlos F. Arias*

Departamento de Genética del Desarrollo y Fisiología Molecular and ^aDepartamento de Microbiología Molecular, Instituto de Biotecnología, Universidad Nacional Autónoma de México. Avenida Universidad 2001, Colonia Chamilpa, Cuernavaca, Morelos 62210, México.

*Corresponding author. Email address: arias@ibt.unam.mx. Phone: (52-777) 3291661. Fax: (52-777) 3172388.

Highlights

- Rotaviruses require the TGN to LE transporter CI-M6PR for cell entry.
- Sortilin-1 was identified as a cell factor involved in rotavirus replication.
- Rotaviruses require cathepsins also to enter Caco-2 cells.

Download English Version:

<https://daneshyari.com/en/article/8751937>

Download Persian Version:

<https://daneshyari.com/article/8751937>

[Daneshyari.com](https://daneshyari.com)