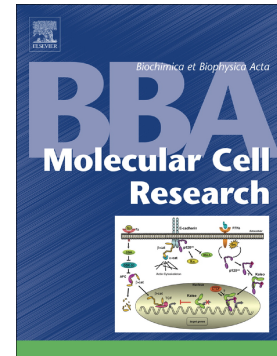


Accepted Manuscript

A novel microscopy-based assay identifies extended synaptotagmin-1 (ESYT1) as a positive regulator of anoctamin 1 traffic

Joana R. Lérias, Madalena C. Pinto, Hugo M. Botelho, Nikhil T. Awatade, Margarida C. Quaresma, Iris A.L. Silva, Podchanart Wanitchakool, Rainer Schreiber, Rainer Pepperkok, Karl Kunzelmann, Margarida D. Amaral



PII: S0167-4889(17)30308-7
DOI: doi:[10.1016/j.bbamcr.2017.11.009](https://doi.org/10.1016/j.bbamcr.2017.11.009)
Reference: BBAMCR 18212

To appear in:

Received date: 12 June 2017
Revised date: 2 November 2017
Accepted date: 14 November 2017

Please cite this article as: Joana R. Lérias, Madalena C. Pinto, Hugo M. Botelho, Nikhil T. Awatade, Margarida C. Quaresma, Iris A.L. Silva, Podchanart Wanitchakool, Rainer Schreiber, Rainer Pepperkok, Karl Kunzelmann, Margarida D. Amaral , A novel microscopy-based assay identifies extended synaptotagmin-1 (ESYT1) as a positive regulator of anoctamin 1 traffic. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. *Bbamcr*(2017), doi:[10.1016/j.bbamcr.2017.11.009](https://doi.org/10.1016/j.bbamcr.2017.11.009)

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.

A Novel Microscopy-Based Assay Identifies Extended Synaptotagmin-1 (ESYT1) as a Positive Regulator of Anoctamin 1 Traffic¹

Joana R. Lérias^{1,2*}, Madalena C. Pinto^{1,2,3*}, Hugo M. Botelho¹, Nikhil T. Awatade¹, Margarida C. Quaresma¹, Iris A. L. Silva¹, Podchanart Wanitchakool², Rainer Schreiber², Rainer Pepperkok³, Karl Kunzelmann², Margarida D. Amaral^{1,3**}

¹University of Lisboa, Faculty of Sciences, BiolSI - Biosystems & Integrative Sciences Institute, Campo Grande, C8, 1749-016 Lisboa, Portugal

²Department of Physiology, University of Regensburg, Universitätsstrasse 31, 93053 Regensburg, Germany

³Cell Biology and Biophysics Unit and Advanced Light Microscopy Facility, European Molecular Biology Laboratory (EMBL), Meyerhofstraße 1, 69117 Heidelberg, Germany

*Equal contribution

**Corresponding Author Contacts:

Tel: +351 21 750 0861; Fax: +351 21 750 0088; Email: mdamaral@fc.ul.pt

¹ Abbreviations: ANO, Anoctamin; BSA, bovine serum albumin; CaCC, calcium (Ca²⁺)-activated Cl⁻ channel; CF, cystic fibrosis; CFBE, cystic fibrosis bronchial epithelial (cells); CFTR, cystic fibrosis transmembrane conductance regulator; Dox, doxycycline; ER, endoplasmic reticulum; EGFR, epidermal growth factor receptor; ERQC, ER quality control; ESYT1, extended synaptotagmin-1; HA, hemagglutinin; HTS, high throughput screening; ISC, short circuit current; PBS, phosphate buffered saline; PFA, paraformaldehyde; PM, plasma membrane; TEER, transepithelial resistance; Vte, transepithelial voltage; WB, Western blot.

Download English Version:

<https://daneshyari.com/en/article/8303738>

Download Persian Version:

<https://daneshyari.com/article/8303738>

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