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# ( Induction of non-selective bulk autophagy

## Elias Adriaenssens<sup>1</sup>

<sup>1</sup>Sascha Martens lab, University of Vienna, Max Perutz Labs - Vienna

ASAP Collaborative Research Network

Sascha Martens lab, University of Vienna, Max Perutz Labs - Vienna



Elias Adriaenssens

Sascha Martens lab, University of Vienna, Max Perutz Labs - ...

### **ABSTRACT**

This protocol describes how to induce bulk (non-selective) autophagy in HeLa cells through nutrient starvation.

**ATTACHMENTS** 

773-1958.pdf

**MATERIALS** 

## Reagents

- Hank balanced salt medium (HBSS, Thermo Fisher).
- Pierce™ Detergent Compatible Bradford Assay KitThermo FisherCatalog #23246

# OPEN ACCESS



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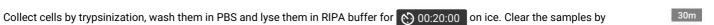
## RIPA buffer

| A                                     | В      |
|---------------------------------------|--------|
| Tris-HCl pH 8.0                       | 50 mM  |
| NaCl                                  | 150 mM |
| sodium deoxycholate                   | 0.50%  |
| SDS                                   | 0.10%  |
| NP-40                                 | 1%     |
| cOmplete mini-EDTA protease inhibitor |        |
| Roche Phosstop                        |        |

## **Nutrient starvation experiments**

30m

To induce bulk autophagy, starve the cells by culturing them in Hank balanced salt medium (HBSS, Thermo Fisher) for the indicated time.



centrifugation at 3 20000 x g, 4°C, 00:10:00

- 3 Collect the soluble supernatant fraction and measure the protein concentrations using the Pierce Detergent Compatible Bradford Assay Kit (23246, Thermo Fisher).
- 4 Analyse protein samples by SDS-PAGE and western blot analysis.