

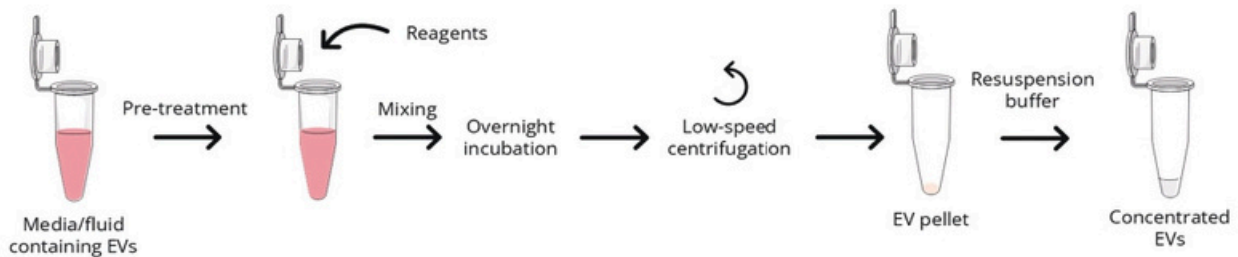


**in-EV** provides researchers with kits to help them purify and characterise EVs. Based on a strong know-how, we are working to develop easy-to-use and comprehensive kits to obtain EVs of the highest quality and performance, and to allow reliable characterisation of EVs.

## EV purification

### EV-Down, for the fast isolation and concentration of EVs

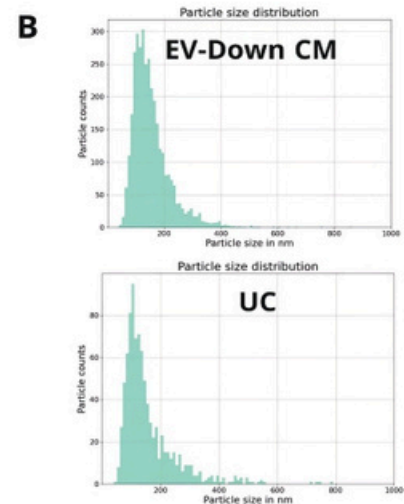
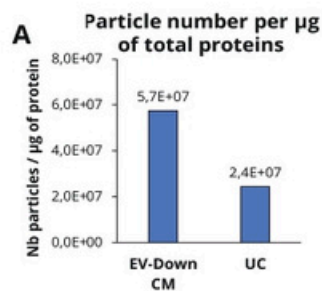
Robust kit with components fine-tuned for high EV recovery yield and minimal protein contamination. Obtention of concentrated EVs to perform analysis without additional purification.



Schematic representation of the principle of EV-Down kit.

- **EV-Down CM**, for EVs from cell culture conditioned media (Ref. K214)

	Protein quantity	Particle number
Clarified culture medium	19,8 mg	ND
EV-Down CM	0,15 mg	8,7E+09
UC	0,10 mg	2,4E+09



Comparison of EV isolation from conditioned culture medium using EV-Down CM kit or ultracentrifugation (UC). **Table.** Total protein quantity and particle number. **A.** EV purity estimated by the ratio: number of particle per  $\mu\text{g}$  of total proteins. **B.** EV size distributions. Particle number and size distribution were obtained using ZetaView® NTA instrument, Particle Metrix.

- **EV-Down Milk**, for EVs from milk of different sources (Ref. K216)

Tested on **maternal milk** as well as milks from **livestock** (cow, goat and mare).

# EV characterisation

## EV-ID, for the characterisation of EVs by Western blot. Ref. K211

Kit for the full characterisation of EVs by Western blot, including:

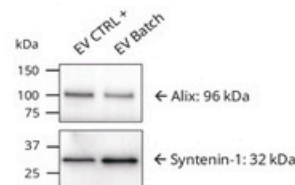
**2 internal markers:** Alix and Syntenin-1

**2 surface markers:** CD9 and CD81

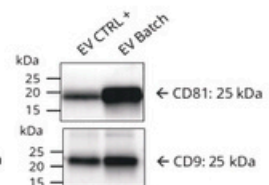
**A representative cell contaminant:** Calnexin.

Efficient for EVs from HEK293T cell culture media and also for maternal, cow, goat and mare milk EVs.

### Internal EV markers



### Surface EV markers



### Cell contamination marker



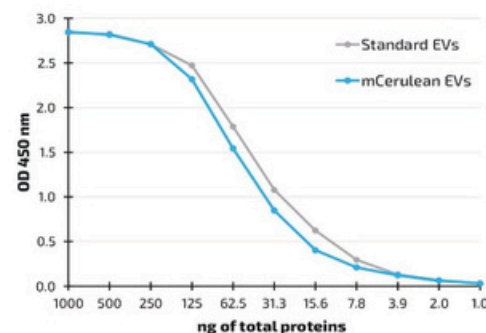
Characterisation of EVs isolated from HEK293T culture medium.

## EV-LISA, a Direct ELISA to assess EV purity and integrity. Ref. K212

Detection and titration of **CD81**, a surface EV specific marker by Direct ELISA.

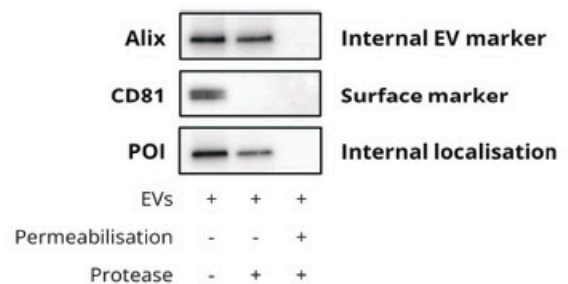
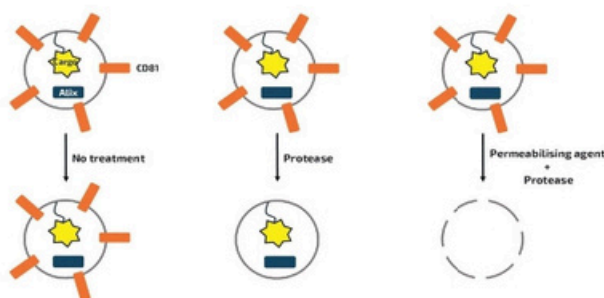
Using this **Direct ELISA** with your own EV batches compared to Standard EVs allows:

- i) **relative quantification** of your EVs,
- ii) **evaluation of the purity and integrity** of your EVs.



## EV-Loc, for EV cargo localisation by Western blot. Ref. K213

A unique kit for the **inside/outside precise localisation** of a protein associated with EVs. Works on EVs of **any purity level** (enriched, pure, extra-pure) from cell culture media or biofluids.



Schematic representation of the principle of EV-Loc kit and example of the localisation of an internal EV cargo. The protein of interest (POI) is protected from protease digestion, only in the absence of permeabilisation.



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