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EV Isolation from Plasma

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Protocol status: Working

We use this protocol and it's working

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Abstract

A protocol to isolate extracellular vesicles (EVs) from human plasma



SEC

- 1 Thaw plasma to $20\text{ }^{\circ}\text{C}$, you will need $500\text{ }\mu\text{L}$ Prepare IZON column 70nm qEV Original by washing with filtered PBS
- 2 Once column is washed, add the plasma sample and let it enter the resin before topping up with 2 mL filtered PBS. Collect the eluate by gravity in a falcon and discard as void. Add 2.5 mL filtered PBS and collect directly into a 4ml Amicon filter tube with 100kDa cut-off. This is your EV fraction. Either wash the column or repeat to collect a non-EV (protein fraction).
- 3 Centrifuge the Amicon tube at 2000 G in 30 second steps until the desired volume is reached - usually $300\text{ }\mu\text{L}$

Qubit Protein Concentration

- 4 As an initial QC, protein concentration can be measured by Qubit.