CD9 Exosome (EV) Capture Kit

Quick Start Guide

What's in the Package

- User Manual
- Magnetic beads
- 10X Wash buffer

Storage Requirement

- 2-8°C
- Do not freeze

Quick Protocol:

1. **Sample Preparation**

Plasma/Serum	**Cell Culture Medium**
• 300–500 × g, 10 min → remove cells • 3,000 × g, 20–30 min → remove debris • 10,000 × g, 30 min → remove platelets • Collect pre-cleared sample	• Collect conditioned medium • 300–500 × g, 10 min → remove cells • 3,000 × g, 30 min → remove debris/large vesicles

2. **Bead Preparation**
   a. Vortex beads for 30 seconds
   b. Aliquot 50 uL beads into low-binding tube and add 0.5 mL PBS+0.1% BSA
   c. Place on magnetic rack for >30 second, remove supernatant

Beads are ready for binding

3. **Binding**
   a. Add 200 uL of EV sample (pre-cleared plasma, serum, cell culture media, pre-enriched EV) to beads. **Tip**: for RNA workflows, add RNase inhibitor (final 0.5-1U/mL)at this step
   b. Incubate 2 hr at RT or overnight at 4°C with gentle mixing
   c. Place on magnetic rack for > 30 second, remove supernatant

CD9+ EVs are now bound to beads

4. **Wash (Protein analysis: 2–3 washes; Nucleic acids: optional)**
   a. Add 500 uL of 1X Wash Buffer to the bound beads
   b. Resuspend beads (vortex + quick spin)
   c. Place on magnetic rack for >30 seconds, remove wash buffer
   d. Repeat 1-2 times

Clean CD9+EVs bounds to beads are ready for downstream applications

Additonal Notes

- 200 µL is a recommended starting sample volume. Because EV abundance can vary by sample type and source, users should optimize performance by titrating the bead-to-sample ratio through input bead amount and sample volume. Reaction volumes may be scaled as needed.

- Proper mixing is critical—ensure beads remain suspended. Use appropriate size of reaction tube and a mixer that tilts and rotates to ensure beads do not settle at the bottom of tube.

OriGene Headquarters
9620 Medical Center Dr Rockville, MD 20850
+1-301-340-3188
custsupport@origene.com
techsupport@origene.com
sales@origene.com

OriGene EU
SchillerstraBe 5
32052 Herford, Germany
+49-5221-346060-0
info-de@origene.com
www.origene.com

ORIGENE
DECODING LIFE: GENOMICS & PROTEOMICS