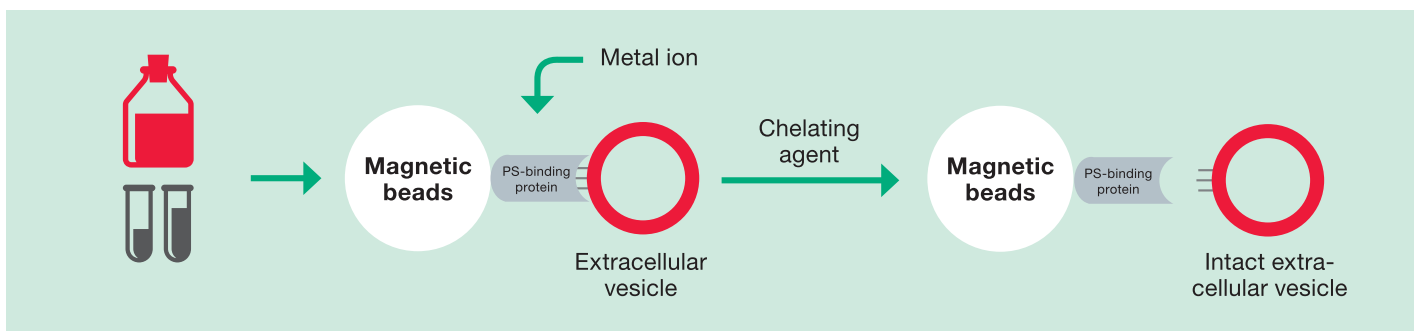


# MagCapture™ EXOSOME ISOLATION KIT PS

EXOSOME ISOLATION BY A NOVEL AFFINITY METHOD



MagCapture™ Exosome Isolation Kit PS adopts a novel affinity purification method using magnetic beads and a phosphatidylserine (PS)-binding protein. By using a phosphatidylserine (PS)-binding protein, extracellular vesicles are captured in a metal ion-dependent manner and are subsequently eluted from magnetic beads with a metal-chelating reagent at neutral pH.

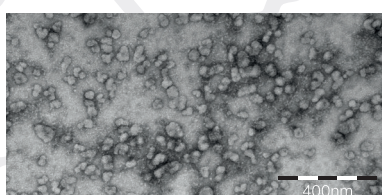
- + Isolation by PS affinity method
- + Purification from cell culture medium and body fluids
- + High purity and high yield of intact exosomes and other EVs
- + Ultracentrifugation is not required

## COMPARISON WITH OTHER PURIFICATION METHODS:

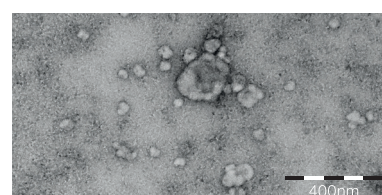
METHOD	EXOSOME PURITY	EXOSOME RECOVERY	INTACT VESICLES RECOVERY
PS affinity method	+++++	++++	Yes
Ultracentrifugation	++	++	Yes
Polymer-based precipitation	+	++	Yes
Exosome surface antigen affinity method (using antibodies)	+++++	++	No

+ Very low   ++ Low   +++ Medium   ++++ High   +++++ Very High

## ELECTRON MICROSCOPIC ANALYSIS OF ISOLATED EXOSOMES:



PS affinity method using MagCapture™ Exosome Isolation Kit PS



Ultracentrifugation

x100,000 Bar: 400nm

The electron microscope images were provided by Dr. R. Hanayama at Graduate School of Medicine, Kanazawa University and Dr. W. Nakai at iFRc, Osaka University.