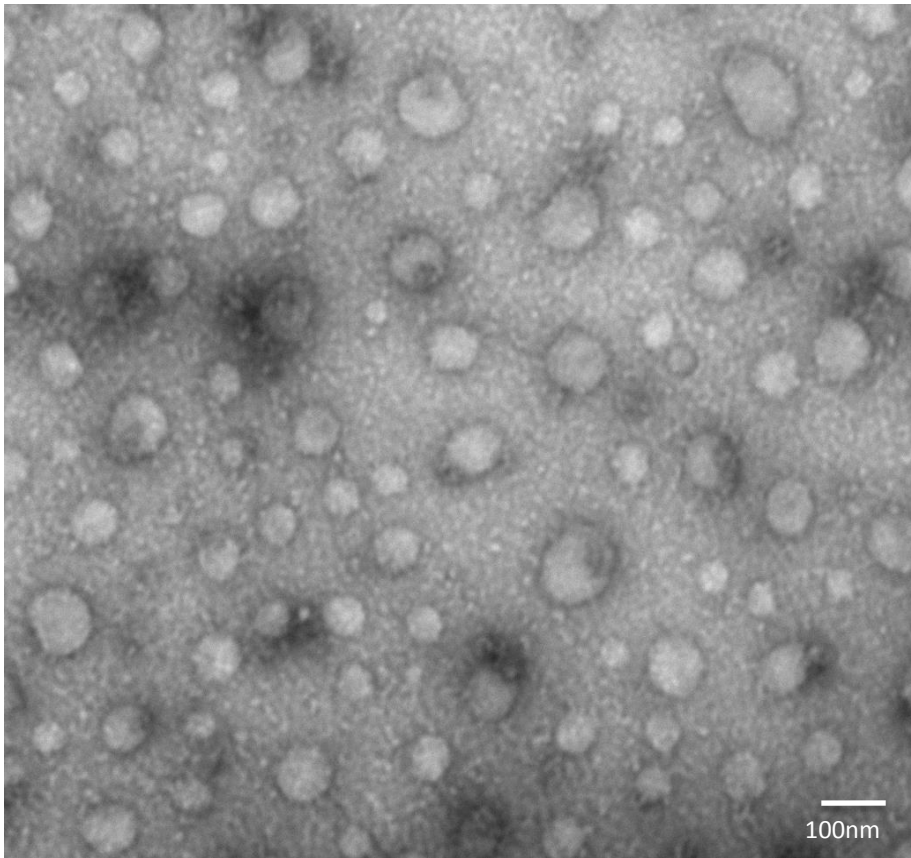


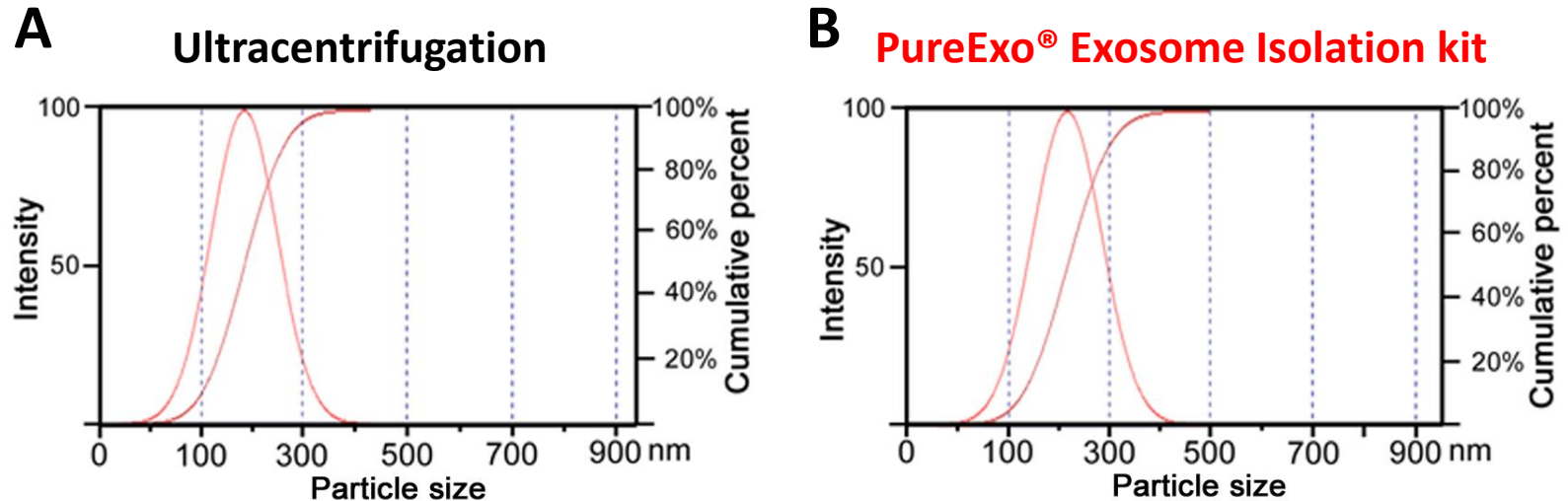
Homogeneous Spherical Exosome Isolated by [PureExo[®] Kit](#) (EM Analysis)



Transmission electron microscopy (TEM) micrograph of exosomes recovered from NIH3T3 cell media with [PureExo[®] Exosome Isolation kit](#).

Isolated exosomes shows spherical and membrane encapsulated particles with the diameters varying between 20-200nm.

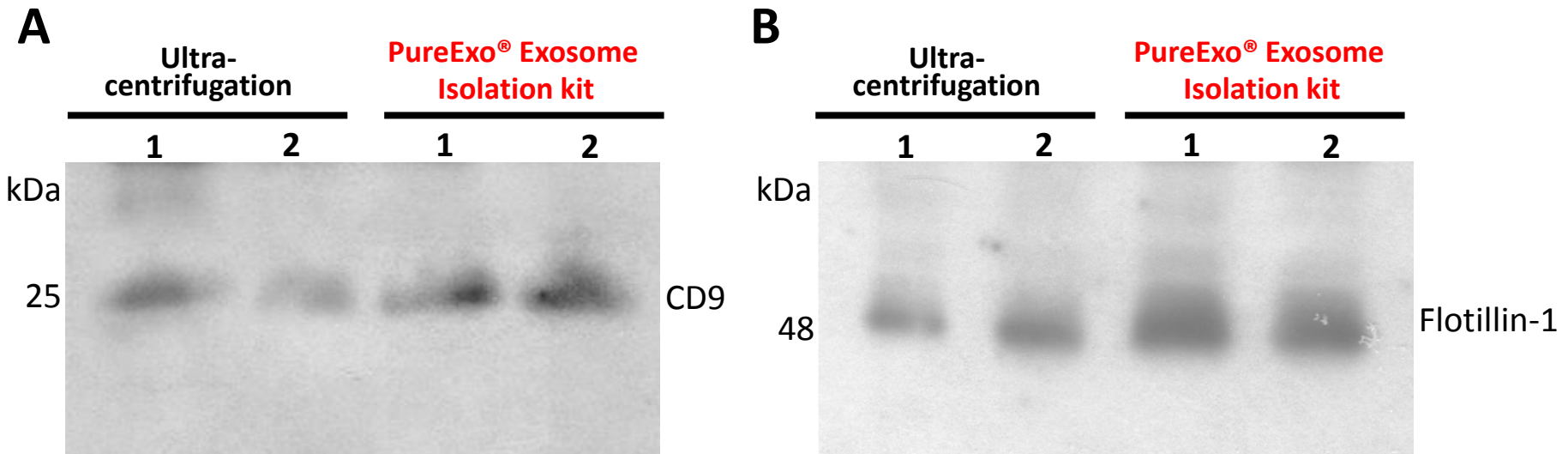
Homogenous Size Distribution of Exosomes Isolated by [PureExo® Kit](#)



Representative dynamic light scattering (DLS) number distribution measurement of isolated exosome population demonstrates a single peak (~150nm) diameter.

Total exosomes were isolated from culture media of NIH 3T3 cells (1×10^6 cells) using ultracentrifugation protocols (A) or PureExo® Exosome Isolation kit (B) and further analyzed by dynamic light scattering (632.8nm laser) using a BI 200SM Research Goniometer System. Exosomes isolated with [PureExo®](#) Exosome Isolation kit shows similar size distribution comparable to exosomes isolated following ultracentrifugation protocols.

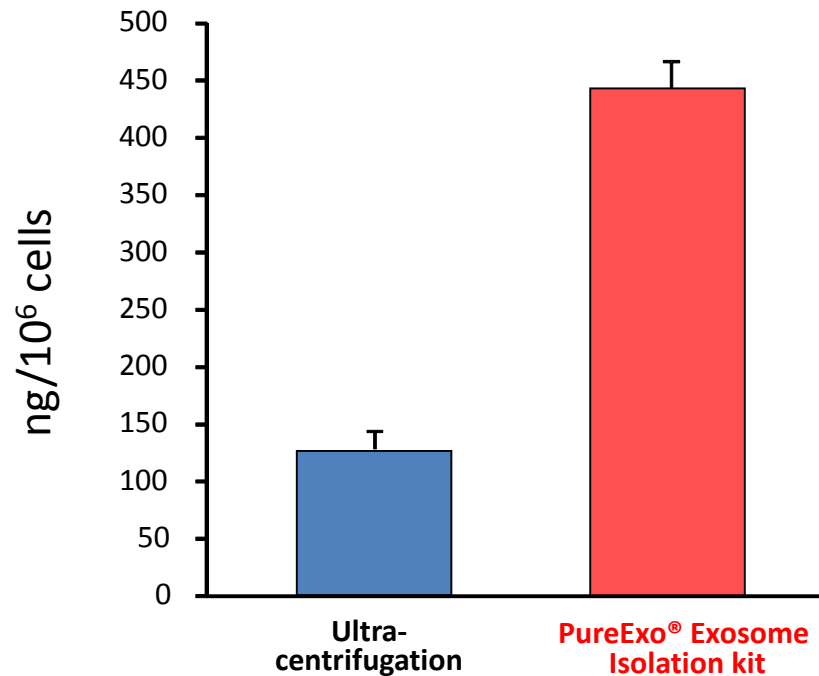
Pure and High Yield of Exosome Verified by [Exosomal Protein](#) Marker



Immunoblots for exosomal marker CD9 and lipid-raft marker Flotillin-1.

Exosomes were isolated from 30 ml culture medium of cultured NIH 3T3 cell using ultracentrifugation protocols (A) or 5ml culture medium of NIH 3T3 using [PureExo[®] Exosome Isolation kit](#) (B). Harvested exosomes were lysed and yielded exosomal proteins were loaded and separated by Bio-Rad 4–20% gradient polyacrylamide gels. Exosomal marker CD9 and lipid-raft marker Flotillin-1 were recognized by anti-CD9 antibody (LS-B7794, Life span Biosciences) and anti-Flotillin-1 antibody (ab41927, Abcam) respectively. Exosomes isolated by PureExo[®] Exosome Isolation kit yield protein with greater purity and quantity than ultracentrifugation, which enhances the accuracy and sensitivity to detect biomarkers carried by exosomes.

High Yield of Exosome Verified by [Exosomal RNA](#) Quantification



Analysis of exosomal RNA levels.

[Exosomal RNA](#) was isolated with Exosome RNA Isolation kit from NIH 3T3 cell media exosomes recovered with PureExo® Exosome Isolation kit or ultracentrifugation protocols. Total exosomal RNAs were measured by the NanoDrop 8000 spectrophotometer. Exosomes isolated by PureExo® Exosome Isolation kit produced greater quantity of exosomal RNA than ultracentrifugation.