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# ab239689 Lyophilized PC3 Exosome Standards

To be used as standards or controls for exosomes assays.

This product is for research use only and is not intended for diagnostic use.

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# 1. Overview

Lyophilized PC3 Exosome Standards (ab239689) are lyophilized exosomes ($1x10^{12}$) derived from human cancer cell line. PC3 is a human metastatic prostate cancer cell line.

## 2. General guidelines, precautions, and troubleshooting

- Please observe safe laboratory practice and consult the safety datasheet.
- For general guidelines, precautions, limitations on the use of our assay kits and general assay troubleshooting tips, particularly for first time users, please consult our guide: www.abcam.com/assaykitguidelines
- For typical data produced using the assay, please see the assay kit datasheet on our website.

## 3. Materials Supplied, and Storage and Stability

- Store at +4°C upon receipt. Product can be stored for 1 year from receipt, if component has not been reconstituted.
- Store small, single-use aliquots of reconstituted exosomes, at -20°C for up to one month or at – 80°C for longer periods, preferably in locations in frost-free freezers, without appreciable temperature fluctuation.
- Reconstituted exosomes, stored properly, are functionally guaranteed for up to six months from date of reconstitution.
- Any unfrozen and/or unused exosome standard can be stored at 4°C for short term use (<1 week), and should not be re-frozen.

## 4. Standard Preparation

### Reconstitution of Exosomes:

- For reconstitution, we recommend adding sterile, distilled water to achieve a final exosome concentration of 1µg/µL (e.g., for 100 µg standard, add 100 µL of dH2O).
- After the addition of water, recap vial and briefly vortex making sure that the liquid has been gently distributed and has covered the entire inside of the vial.
- After vortexing, make sure that the solution is collected at the bottom of the vial, if not, centrifuge shortly the vial solution.
- Now the standard is ready to use.

## 5. Typical Data

– In order to compare the effects of lyophilization process we have compared all lyophilized batches with respect to fresh exosomes stored at -20ºC.

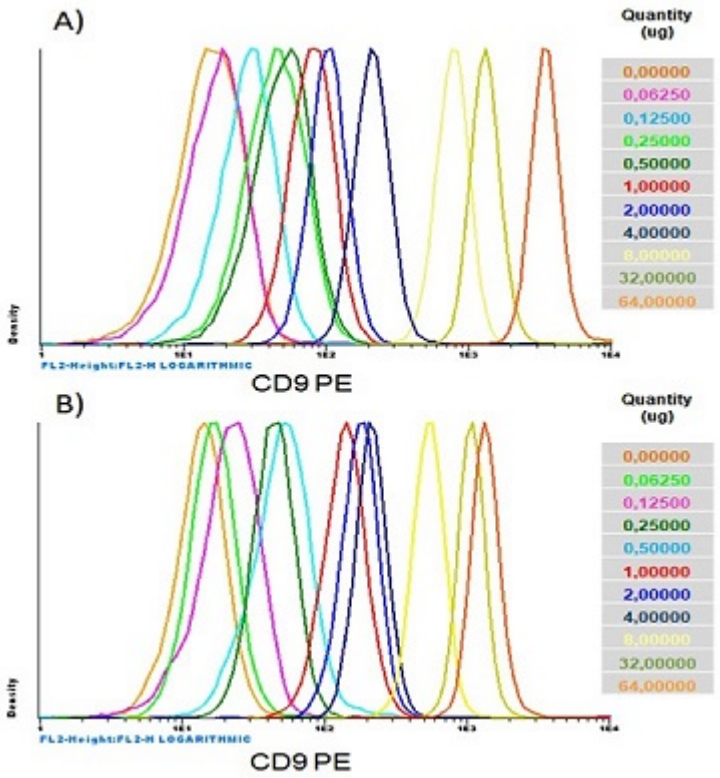


**Figure 1.** Dynamic range of fresh (A) and lyophilized (B) exosomes analyzed by flow cytometry. Relationship between background noise and specific signal at different exosome concentrations. Exosomes were captured by CD63+ (Clone TEA3/18) capture beads. and subsequently detected by Anti-CD9 PE (Clone VJ1/20).

## Notes

## Technical Support



**For all technical or commercial enquiries please go to:**

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