

# Comparative Proteomics Analysis of Exosomes Identifies Key Pathways and Protein Markers Related to Breast Cancer Metastasis

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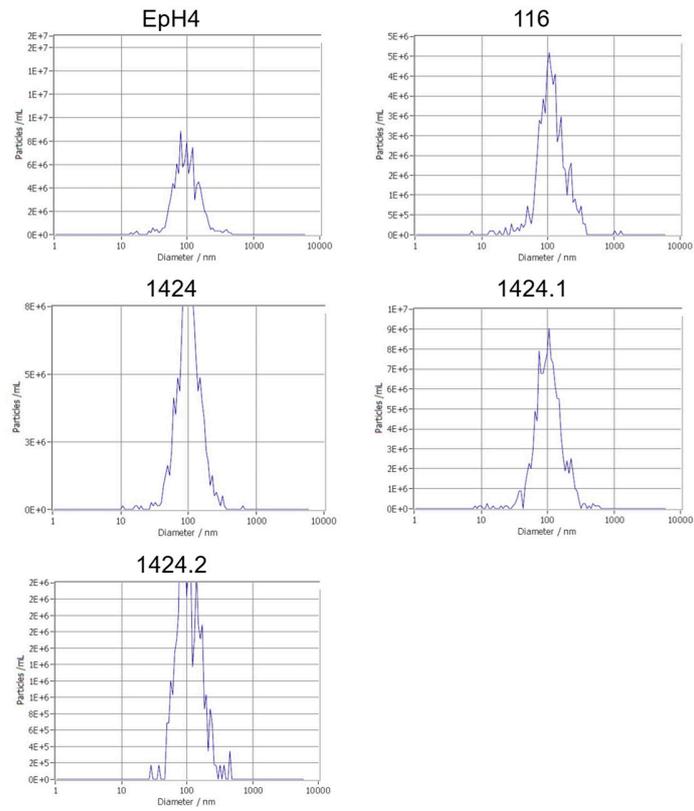
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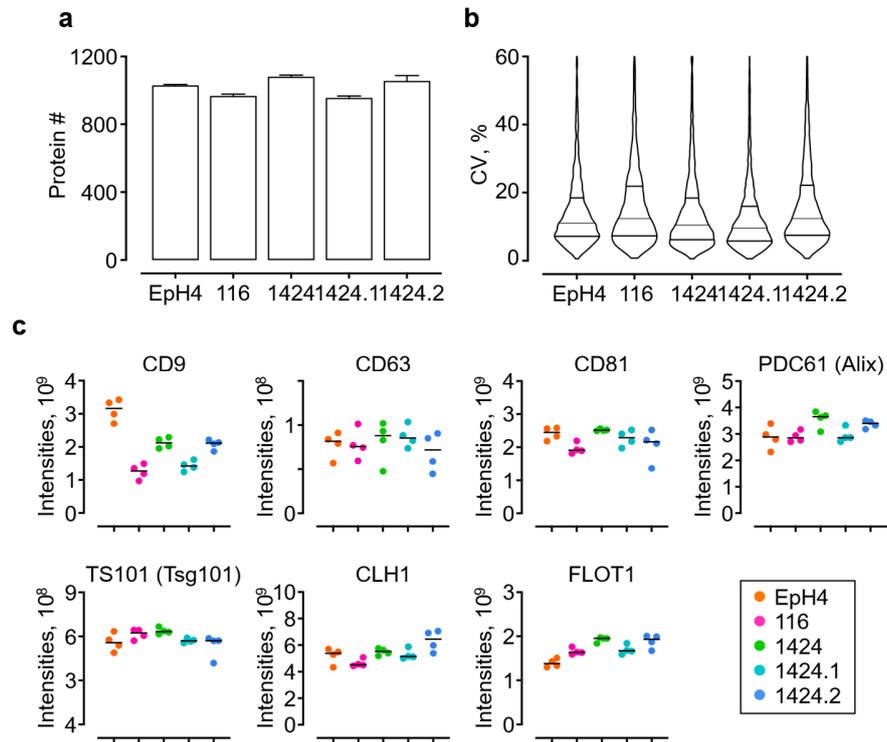
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## Supplementary Materials

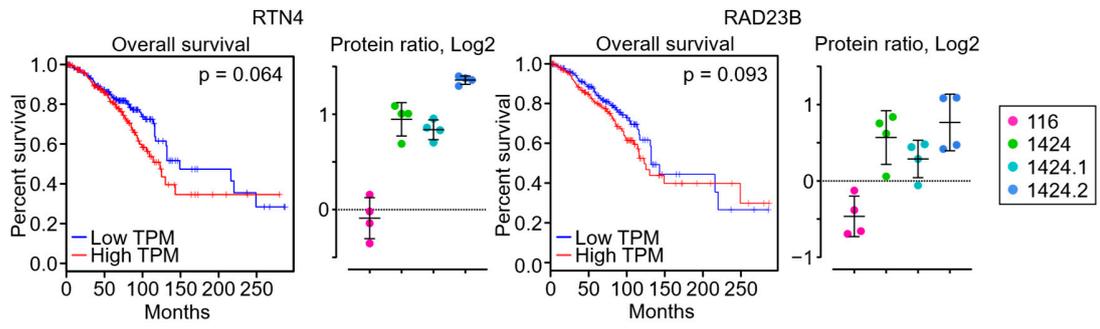
- Figures S1 – S4
- Tables S1 – S8



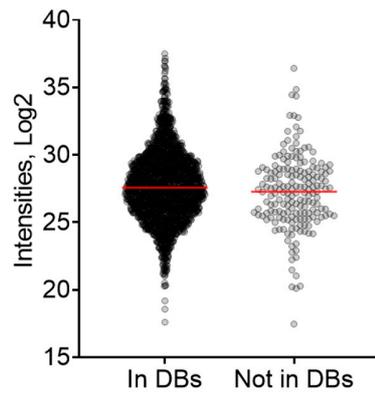
Supplementary Figure S1. Density curves (particles/mL) of exosome isolated from each EpH4 cell line.



**Supplementary Figure S2.** Proteomics characterization of the exosomes isolated in each BC cell line. (a) the number of proteins identified; (b) Intra-group coefficient of variation (CV) of proteins; (c) MS intensities of seven canonical exosome markers.



**Supplementary Figure S3.** Survival plots and corresponding protein exosome abundances of reticulon 4 (RTN4) and UV excision repair protein RAD23 homolog (RAD23B).



**Supplementary Figure S4.** MS intensities of proteins archived and not archived in the two EV databases (*i.e.*, Vesiclepedia and ExoCarta).

**Table S1.** List of proteins quantified and MS quantitative values in each sample.

**Table S2.** List of 94 quantified proteins among the TOP100 proteins in ExoCarta.

**Table S3.** List of protein IDs associated with BC and metastasis identified by DisGeNet.

**Table S4.** List of proteins with significant changes among the five cell lines (i.e., altered proteins).

**Table S5.** TOP20 altered proteins with the highest fold changes in each set of tumor/control comparison.

**Table S6.** List of altered proteins enriched in the DisGeNet terms of BC and metastasis.

**Table S7.** List of metastasis-specific altered proteins.

**Table S8.** TOP20 altered proteins with the highest fold changes in each set of metastatic/non-metastatic comparison.

\*\*All Supplementary Tables are provided as separate Excel files.