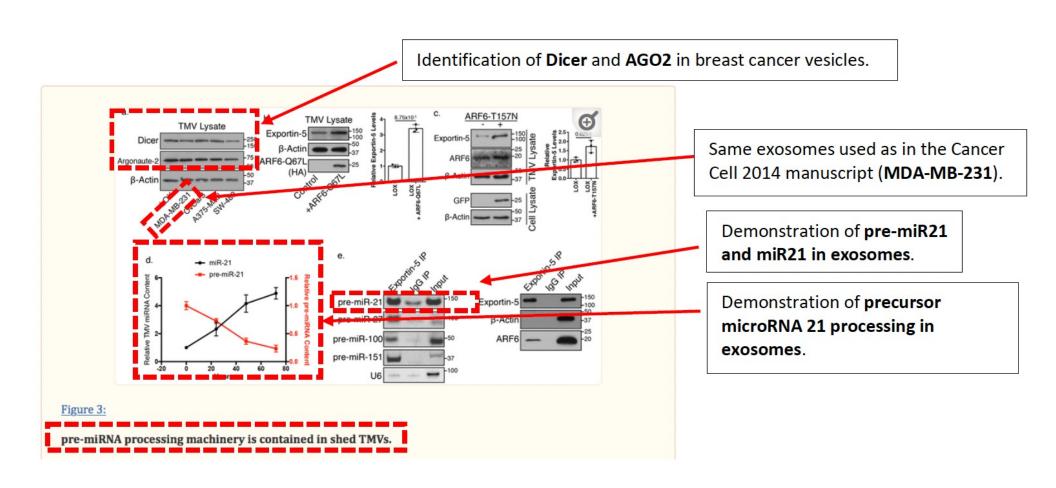
The data in the identified issues in the Cancer Cell manuscript (2014) was independently validated and reproduced by other researcher groups in published papers

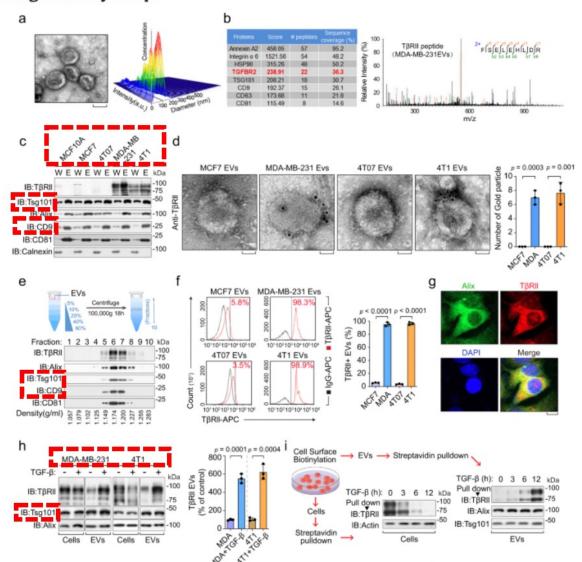
Nat Cell Biol. 2019 Jul; 21(7): 856-866.

doi: 10.1038/s41556-019-0345-y



**Nat Commun 2022,** 13, 4461; Xie, F., Zhou, X., Su, P. et al. Breast cancer cell derived extracellular vesicles promote CD8+ T cell exhaustion via TGF-β type II receptor signaling.

Fig. 1: Extrafacial expression of T $\beta$ RII on malignant breast cancer cell-derived EVs and its regulation by TGF- $\beta$ .

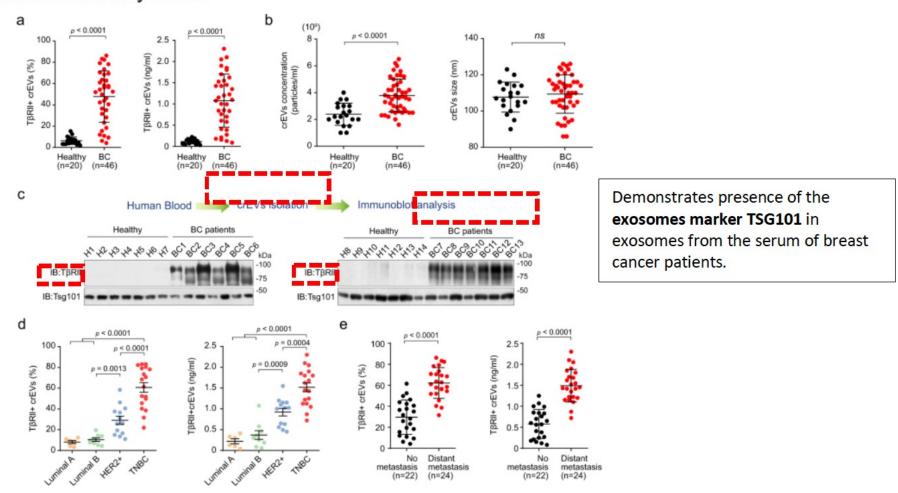


Same cell lines used in Cancer Cell 2014 manuscript: MCF10A, MCF7, MDA-MB-231 and 4T1.

Demonstrates presence of the exosomes markers TSG101 and CD9.

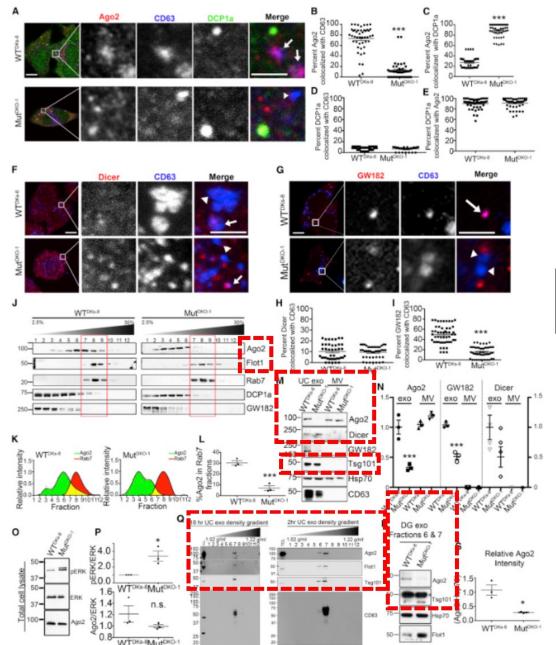
**Nat Commun 2022,** 13, 4461; Xie, F., Zhou, X., Su, P. et al. Breast cancer cell derived extracellular vesicles promote CD8+ T cell exhaustion via TGF-β type II receptor signaling.

Fig. 3: The amount of  $T\beta RII$  on circulating EVs distinguishes patients with breast cancer from healthy donors.



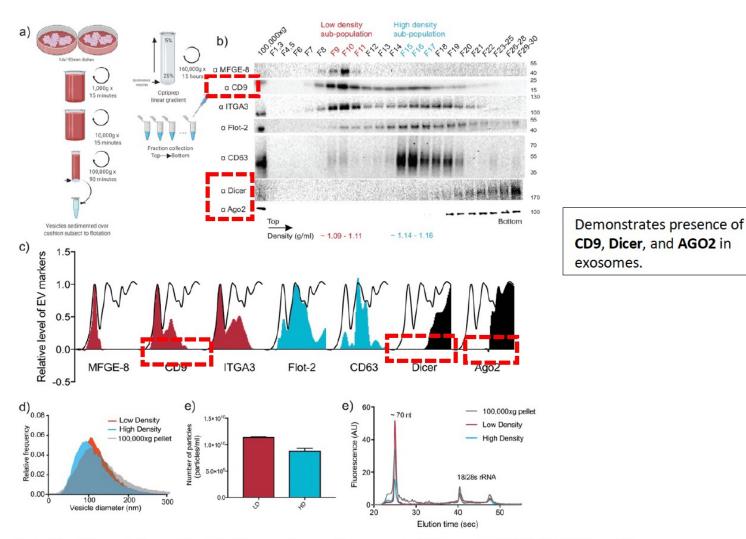
Cell Rep. 2016 May 3;15(5):978-987. doi:

10 1016/i celren 2016 03 085



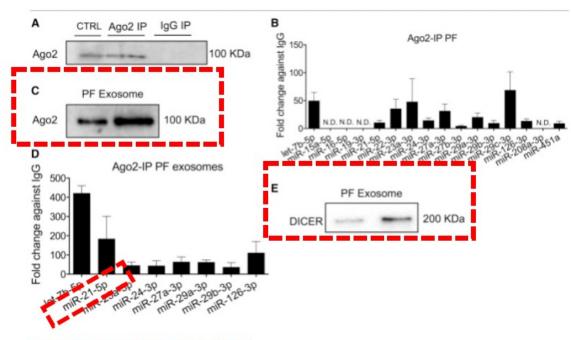
Demonstrates presence of AGO2, Flotilin 1, Dicer, and TSG101 in exosomes.

**eLife 2019** 8:e47544 Morayma M et al... Randy Schekman. Distinct mechanisms of microRNA sorting into cancer cell-derived extracellular vesicle subtypes.



Two biochemically distinct sEV sub-populations are released by MDA-MB-231 cells.

Mol Ther. 2017 Mar 1;25(3):679-693. doi: 10.1016/j.ymthe.2016.12.022.



Demonstrates presence of AGO-2, Dicer, and miR-21 in exosomes.

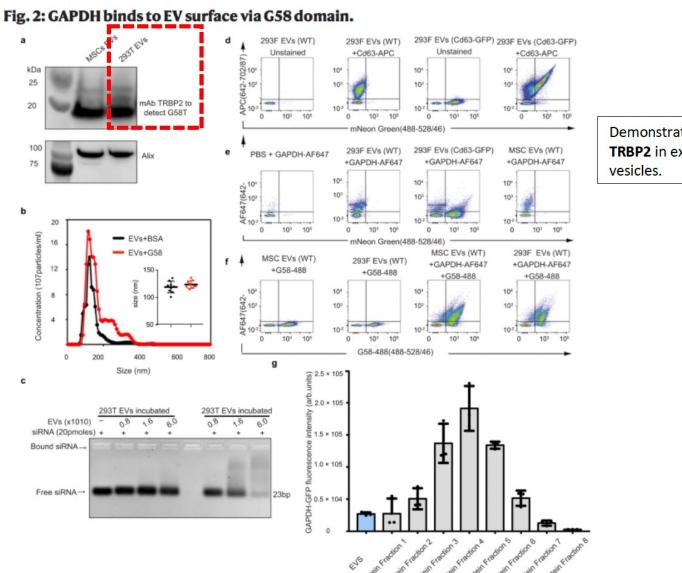
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Figure 4. PF Exosomes Contain DICER and AGO-2 Protein

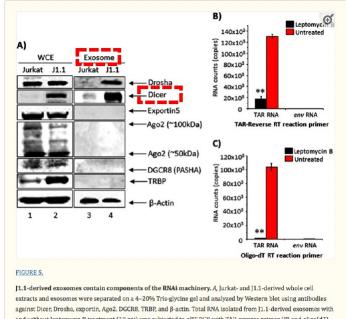
(A) Validation by immunoblotting of AGO-2 immunoprecipitation (IP) performed on human PF samples using AGO-2 antibody. Mouse non-specific IgG antibody was used as control for the IP. ECs were used as positive control (CTRL). (B) The miRNA expression after AGO-2 IP is presented as fold enrichment relative to IgG; mean+ SEM; n= 5. (C) AGO-2 in exosomes enriched from PF samples (representative western blot images). (D) AGO-2 IP was performed on exosomes enriched from PF samples. miRNA expression is expressed as fold enrichment in the AGO-2 IP relative to IgG; mean+ SEM; n= 2. (E) Representative western blot images of DICER protein incorporated in the exosomes.

**Nat Commun 2021**, 6666; Dar, G.H. et al. GAPDH controls extracellular vesicle biogenesis and enhances the therapeutic potential of EV mediated siRNA delivery to the brain.



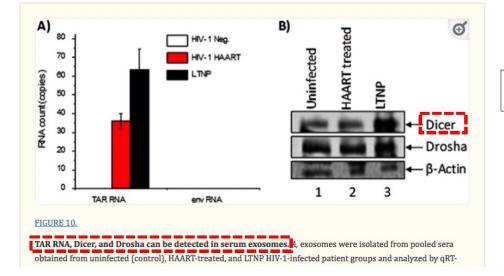
Demonstrates presence of **TRBP2** in extracellular vesicles.

J Biol Chem. 2013 Jul 5; 288(27): 20014-20033 doi: 10.1074/jbc.M112.438895



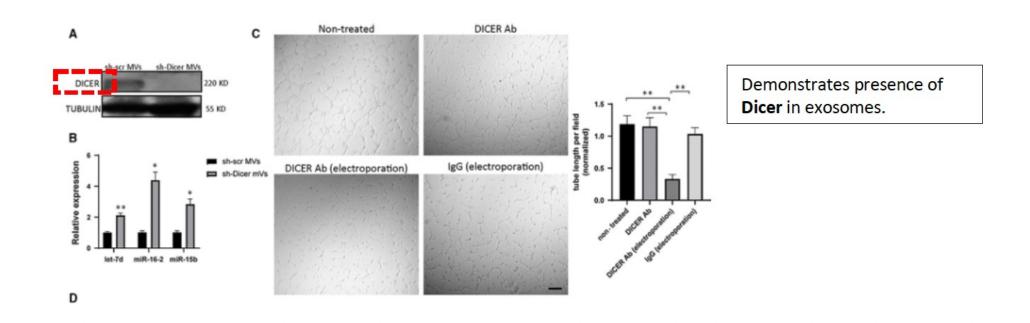
Demonstrates presence of **Dicer** in exosomes.

against Dicer, Drosha, exportin, Ago2, DGCR8, TRBP, and  $\beta$ -actin. Total RNA isolated from J1.1-derived exosomes with and without leptomycin B treatment (10 nM) was subjected to qRT-PCR with TAR-reverse primer (B) and oligo(dT) primers (C). cDNA was then quantified by SYBR Green real time PCR with the primer sets specific for HIV-1 TAR and env sequences. Error bars show the standard deviation from three independent RNA preparations. Double asterisk

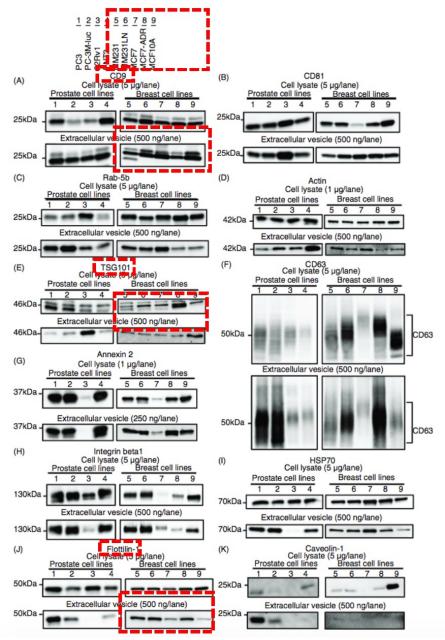


Demonstrates presence of **Dicer** in exosomes.

J Cell Mol Med. 2020 May;24(9):4915-4930. doi: 10.1111/jcmm.14917



Journal of Extracellular Vesicles 2013 Yusuke Yoshioka et al. Comparative marker analysis of extracellular vesicles in different human cancer types.



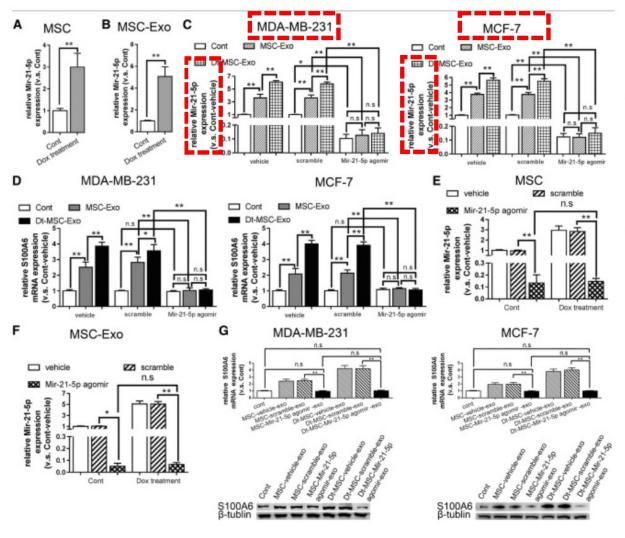
Same cell lines used in Cancer Cell 2014 manuscript: MCF10A, MCF7, and MDA-MB-231.

Demonstrates presence of the exosomes markers TSG101, CD9, Flotilin-1.

Digestion. 2021;102(4):640-649. **Serum Exosomal Dicer** Is a Useful Biomarker for Early Detection of Differentiated Gastric Adenocarcinoma.

Relates to **Figure 7I** of Cancer Cell 2014 manuscript demonstrating breast cancer serum exosomal Dicer.

**Molecular Therapy - Oncolytics, 2020** Tao Luo etal. Mesenchymal Stem Cell-Secreted Exosome Promotes Chemoresistance in Breast Cancer via Enhancing miR-21-5p Mediated S100A6 Expression.



Same cell lines used in Cancer Cell 2014 manuscript: MCF7 and MDA-MB-231.

Demonstrates presence of the **microRNA 21.** 

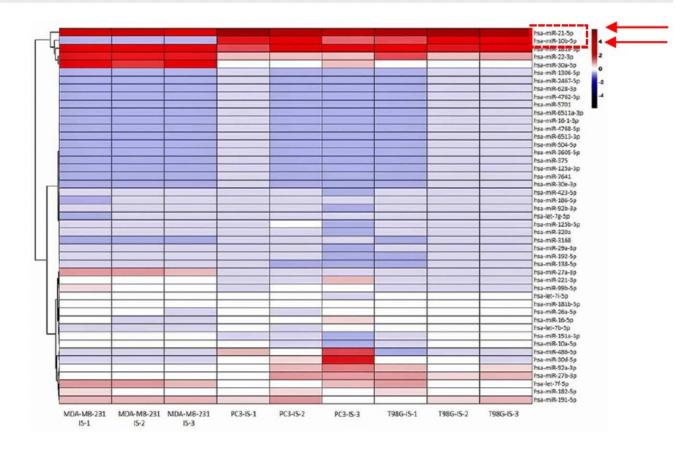
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Figure 6. MSC-exo and Dt-MSC-exo Promote the Expression of S100A6 in BCs by Delivering miR-21-5p

Cell Adhesion & Migration 2021 Francesca Lessi et.al. Analysis of exosomederived microRNAs reveals insights of intercellular communication during invasion of breast, prostate and glioblastoma cancer cells. 15:1, 180-201.





MicroRNA 21 and microRNA 10b detected as the most abundant microRNAs in exosomes of MDA-MB231 cells (the same used in the Cancer Cell 2014 manuscript).