



Evaluation of Astatine-211-Labeled Fibroblast Activation Protein Inhibitor (FAPi): Comparison of Different Linkers with Polyethylene Glycol and Piperazine

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Supporting Information

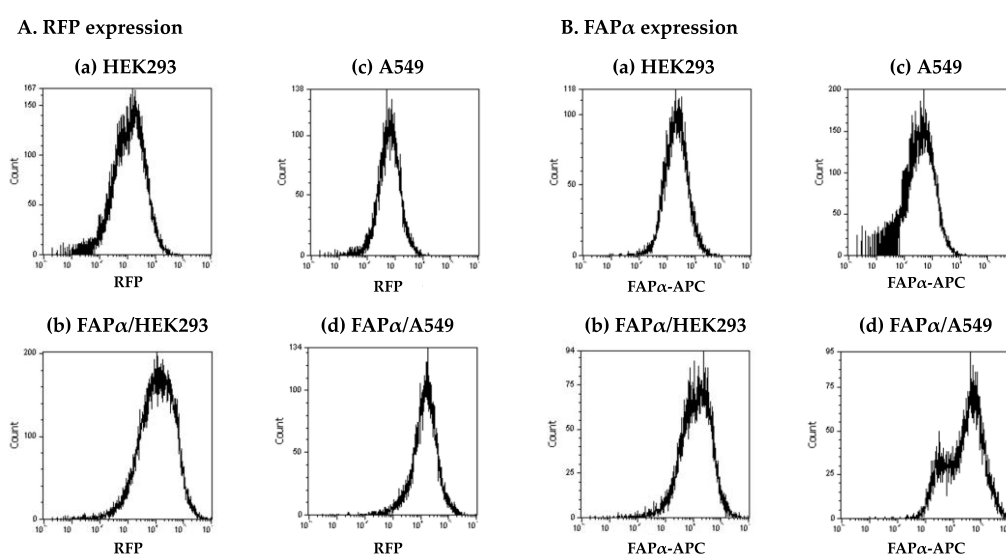
Establishment of FAP α over expression cell lines

Lentivirus vector was produced by the widely known protocol. pLenti-GIII-CMV-RFP-2A-Puro was transfected into 293T cells with two plasmids (pCAG-HIVgp as envelope and pCMV-VSV-G-RSV-Rev as virus protein) by according to HilyMax (DOJINDO LABORATORIES, Kumamoto, Japan) transfection protocol. 293T cells were kindly provided from RIKEN. Once produced, lentivirus was used for stable-cell line generation.

Infected A549 and HEK293 cells were selected under puromycin existing medium. After single cloning using RFP fluorescence as a marker, the cells were scaled up, and finally FAP α expression was confirmed with a flow cytometer.

Measurement of FAP α expression

Cells were dispersed by Trypsin-EDTA treatment, and washed three times by PBS(-). Counted and resuspended 1×10^5 cells/tube in 50 μ L MACS buffer: 2mM EDTA(pH8.0), 0.5 % Bovine Serum Albumin (BSA) in PBS(-). Cells were treated with FAP α antibody (FAB3715A, R&D Systems, Minneapolis, MN, USA) on ice for 30 minutes, and washed three times by PBS(-), and analyzed by Attune NxT flow cytometer. Over expression cell lines had high red fluorescence intensity and FAP α expression (**Supplementary Figure 1**).



Supplementary Figure S1. Confirmation of expression levels of FAP α in established cultured cell lines. The vertical axis of the histogram indicates the number of cells, and the horizontal axis indicates the expression level of RFP (A) or FAP α (B).