

Identification of KIAA1199 as a Biomarker for Pancreatic Intraepithelial Neoplasia

Han Na Suh,^{1#} Sohee Jun,^{1#} Ah-Young Oh,^{2#} Mrinal Srivastava,¹ Sunhye Lee,¹ Cullen M. Taniguchi,¹ Songlin Zhang,³ Won Sup Lee,⁴ Junjie Chen,¹ Bum-Joon Park,² and Jae-II Park^{1,5,6,*}

¹Department of Experimental Radiation Oncology, The University of Texas MD Anderson Cancer Center, Houston, TX 77030, USA

²Department of Molecular Biology, Pusan National University, Busan, Republic of Korea

³Department of Pathology, The University of Texas Medical School, Houston, TX 77030, USA.

⁴Department of Internal Medicine, Gyeong-Sang National University Hospital, Jinju, Republic of Korea

⁵Graduate School of Biomedical Sciences at Houston, Houston, TX 77030, USA

⁶Program in Cancer Biology, The University of Texas MD Anderson Cancer Center, Houston, TX 77030, USA

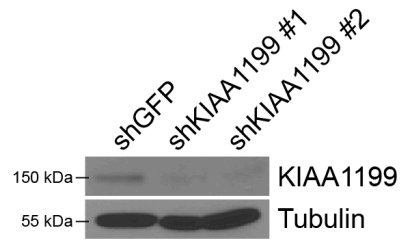
[#]These authors equally contributed to this work.

*Correspondence: Jae-II Park

SUPPLEMENTARY INFORMATION

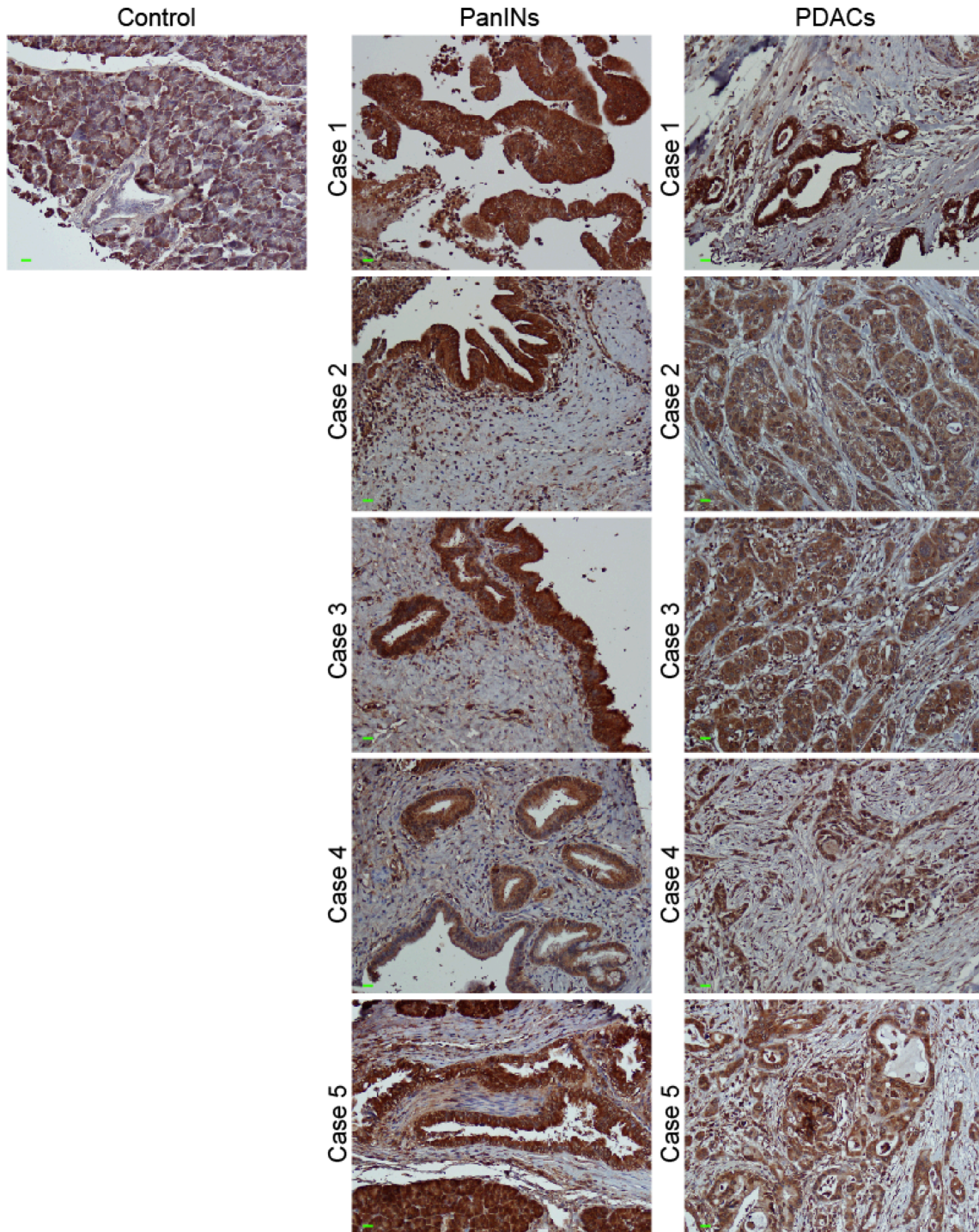
Supplementary Figures 1, 2, and 3

Supplementary Data 1 and 2

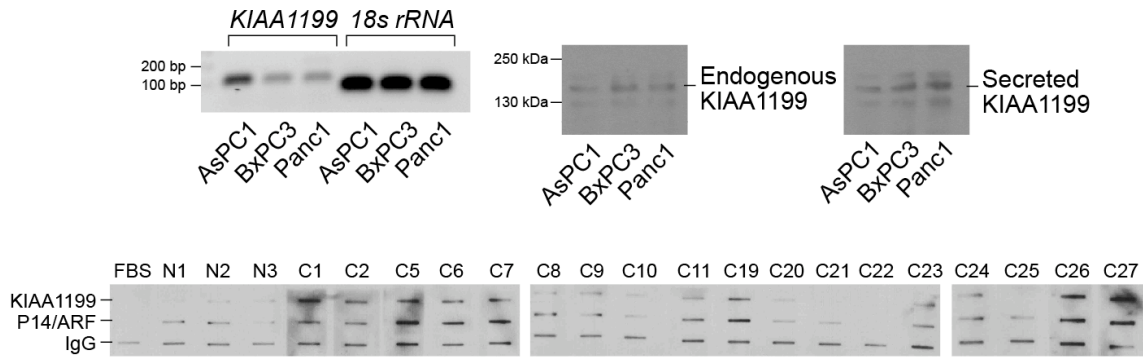


Supplementary Figure 1. Expression of KIAA1199 in Panc-1

Panc-1 was transfected with shGFP (negative control), shKIAA1199#1, or shKIAA1199#2 (endogenous depletion of specific for KIAA1199).



Supplementary Figure 2. Expression of KIAA1199 in PanINs and PDACs
 TMA slides (BIC14011a and PA242b) were stained with KIAA1199 antibody (SantaCruz SC-164775, 1:25 dilution) and peroxidase-conjugated anti-rabbit 2nd antibody (Jackson ImmunoResearch, 1:200 dilution). DAB substrate was used for chromogenic detection. Scale bars= 20 μ m.



Supplementary Figure 3. Full-length gels and blots

Related images of Figure 2h-2j and Figure 5a

Supplementary Data 1. Oncomine analysis

List of two cDNA microarray datasets were analyzed using Oncomine (Gruntzmann [177 genes] and Pei [195 genes]). 21 genes were selected as the top 1% upregulated genes (fold change > 2; P < 0.0001).

Supplementary Data 2. KIAA1199 expression scoring in PanINs and PDAC

(Biomax TMA BIC14011a and PA242b). KIAA1199 expression intensity was scored (no expression: -; expression: +1~+3 from low to high expression).