

Supplementary information

Comprehensive Analysis of Expression, Clinicopathological Association and Potential Prognostic Significance of RABs in Pancreatic Cancer

Shashi Anand ^{1,2}, Mohammad Aslam Khan ^{1,2}, Moh'd Khushman ³, Santanu Dasgupta ^{1,2}, Seema Singh ^{1,2,4} and Ajay Pratap Singh ^{1,2,4,*}

¹ Department of Pathology, College of Medicine, University of South Alabama, Mobile, AL 36617, USA; sanand@health.southalabama.edu (S.A.); makhan@health.southalabama.edu (M.A.K.); dasgupta@southalabama.edu (S.D.); seemasingh@health.southalabama.edu (S.S.)

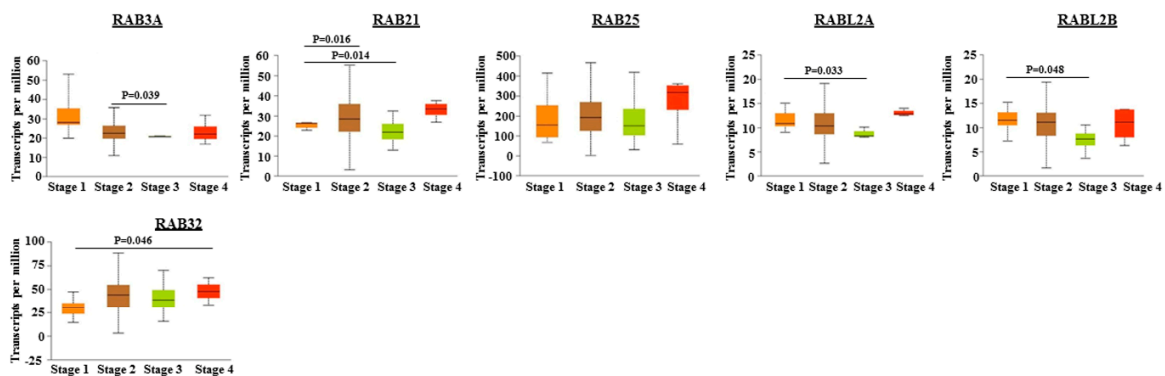
² Cancer Biology Program, Mitchell Cancer Institute, University of South Alabama, Mobile, AL 36604, USA

³ Department of Medical Oncology, Mitchell Cancer Institute, University of South Alabama, Mobile, AL 36604, USA; mmkhushman@health.southalabama.edu

⁴ Department of Biochemistry and Molecular Biology, College of Medicine, University of South Alabama, Mobile, AL 36688, USA

* Correspondence: asingh@health.southalabama.edu; Tel.: +1-251-445-9843; Fax: +1-251-460-6994

Tumor stage-specific expression



Tumor grade-specific expression

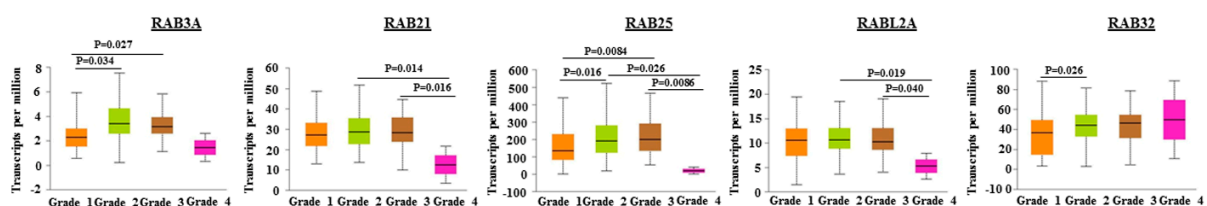


Figure S1. Association of transcript levels of *RAB3A*, *RAB21*, *RAB25*, *RABL2A*, *RABL2B* and *RAB32* with tumor grade and stage of pancreatic adenocarcinoma. Statistically significant tumor stage- and grade-specific association of some *RAB* genes was detected, but no clear pattern of association was evident. Stage 1 ($n = 6$), stage 2 ($n = 146$),

stage 3 ($n = 4$) and stage 4 ($n = 4$). Grade 1- well differentiated ($n = 31$), grade 2-moderately differentiated ($n = 95$), grade 3- poorly differentiated ($n = 48$) and grade 4- undifferentiated ($n = 2$).

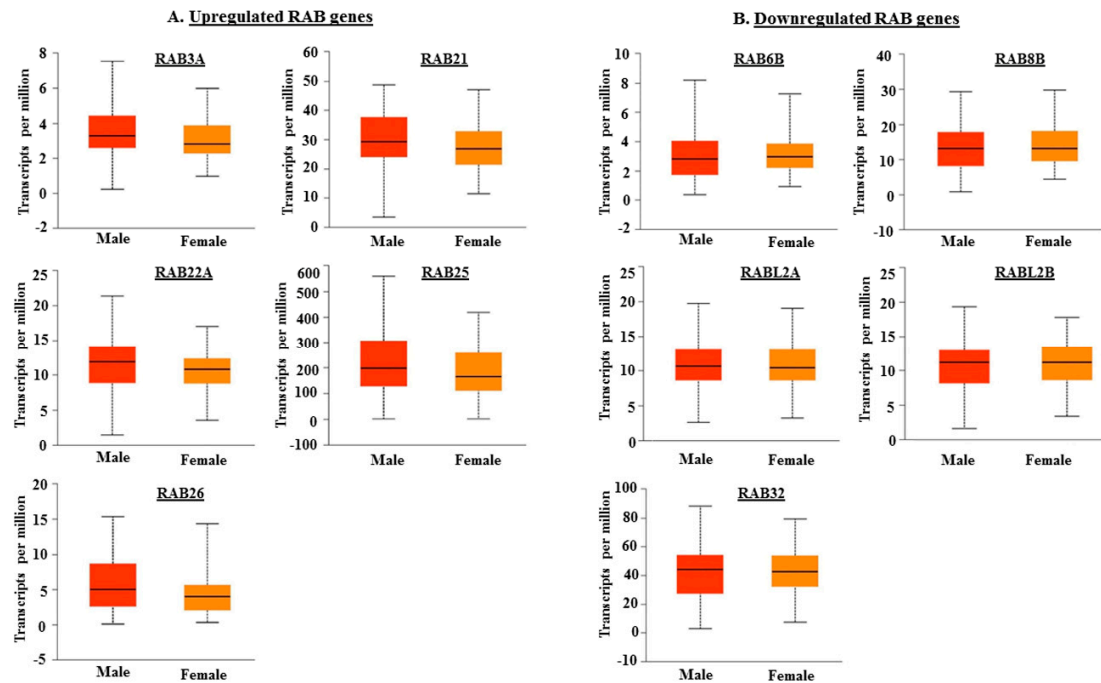


Figure S2. Gender-based differential expression of *RAB* genes. Transcript levels of (A) upregulated (*RAB3A*, *RAB21*, *RAB22A*, *RAB25* and *RAB26*) and (B) downregulated (*RAB6B*, *RAB8B*, *RABL2A*, *RABL2B* and *RAB32*) RABs in PDAC were examined for gender-specific differences. Male ($n = 97$); Female ($n = 80$). No significant association was observed.