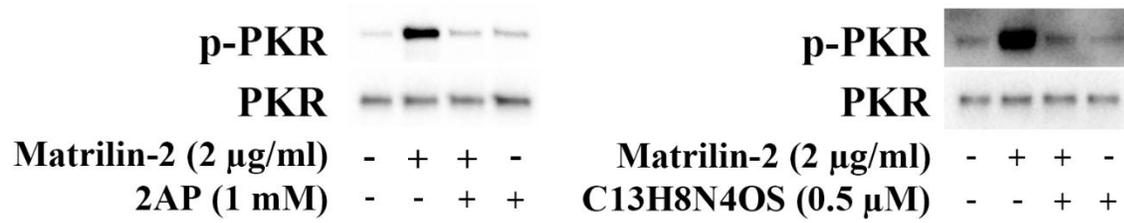
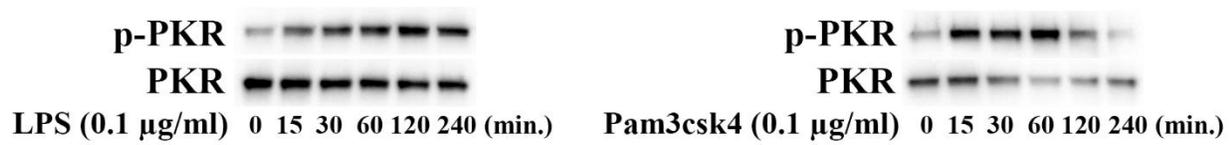


Supplementary Figure 1. PKR is localized in the cytosol of human AVICs. Human AVICs were treated with recombinant matrilin-2 for 30 mins to 1h. Representative images of immunofluorescence staining show PKR (red) in human AVICs. Alexa 488-tagged WGA (green) was applied to outline plasma membrane. DAPI (blue) was applied for nuclear counterstaining. Original magnification, $\times 40$ objective.



Supplementary Figure 2. PKR inhibitors abolish matriline-2-induced PKR phosphorylation in human AVICs. Human AVICs were treated with C₁₃H₈N₄OS or 2-AP for 1h or left untreated, followed by stimulation with matriline-2 (2.0 µg/ml) for 1h.



Supplementary Figure 3. Stimulation of TLR2 or TLR4 with a specific agonist induces PKR phosphorylation. Human AVICs were treated with TLR2 agonist Pam3csk4 or TLR4 agonist lipopolysaccharide (LPS) for 15 to 240 min.