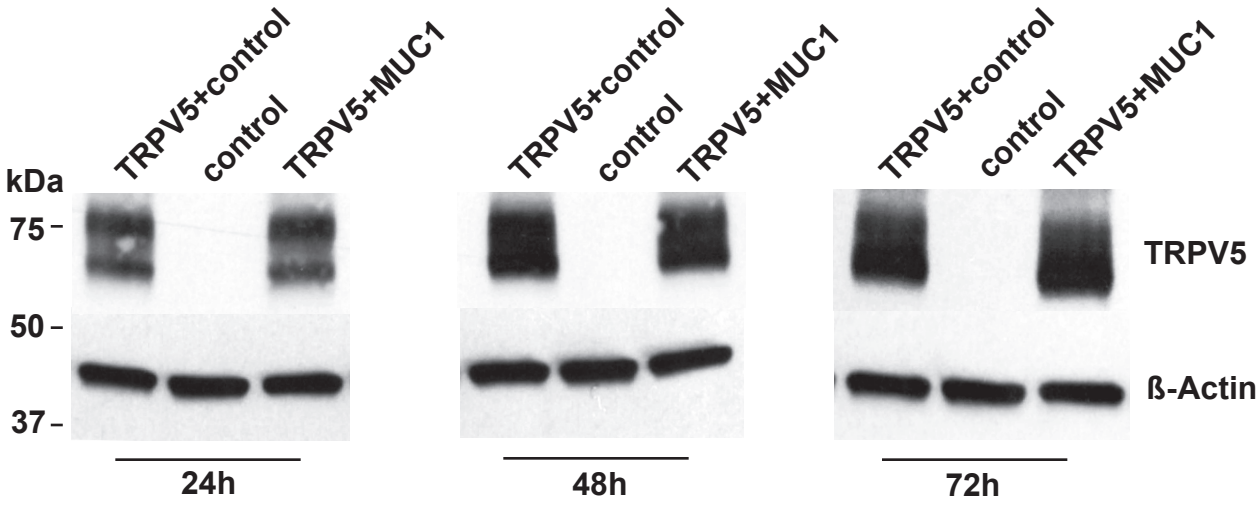
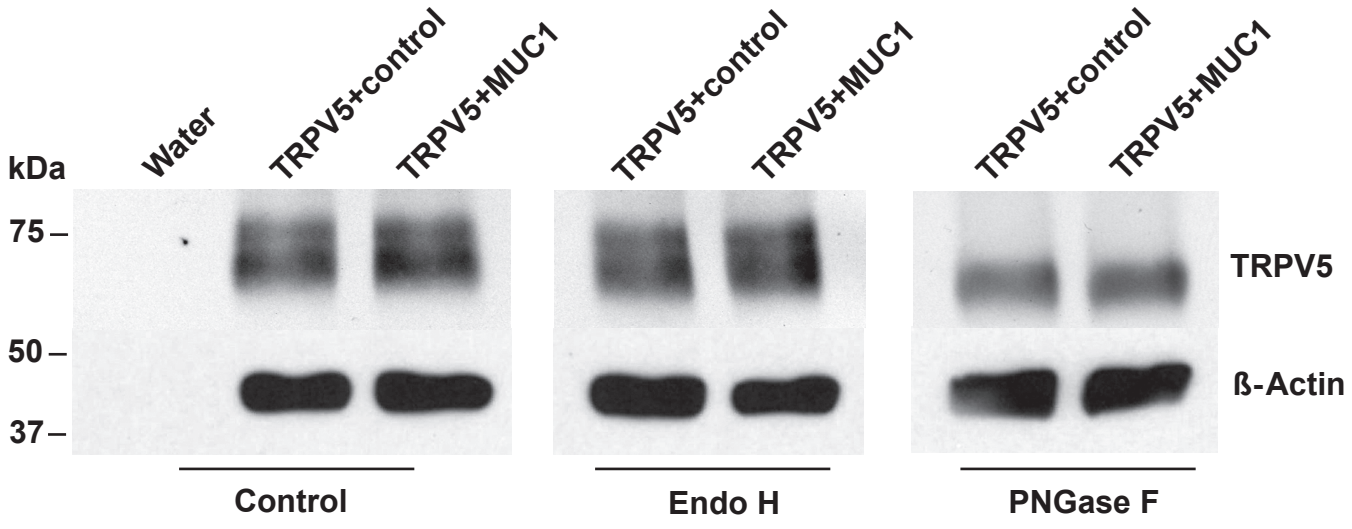
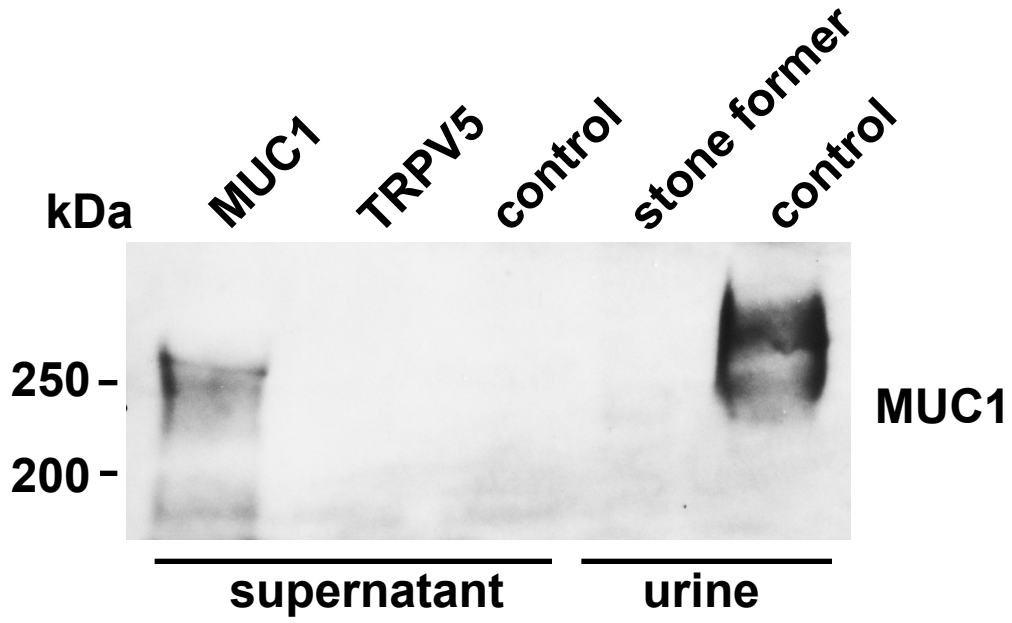
Supplementary Figure 1



Supplementary Figure 2



Supplementary Figure 3



Supplementary Figure 1. TRPV5 protein stability is not altered by MUC1. Using western blotting the band density of TRPV5 was not significantly changed at 24h, 48h and 72h when transfected with either control or MUC1.

Supplementary Figure 2. N-glycosylation of TRPV5 is not affected by MUC1. Cell lysate was treated with Endo H or PNGase F. TRPV5 N-glycosylation patterns remained unchanged when cotransfected with either control or MUC1.

Supplementary Figure 3. Levels of MUC1 in supernatant range between urinary MUC1 levels of calcium stone formers and control individuals. Comparison between MUC1 in culture medium of overexpressing cells and human urine is challenging. A semiquantitative approach using western blotting showed that applying the same experimental settings as for the experiment in Fig. 7A, band density for MUC1 in culture medium ranged between the urinary MUC1 band density for calcium stone formers and control individuals. Representative urine samples for stone formers and controls were chosen. Same volumes of MUC1 containing culture medium and 24 h urines were loaded. The loaded urine volume reflects the urine output of approximately one second, indicating that control human urine contains significant amounts of MUC1.