

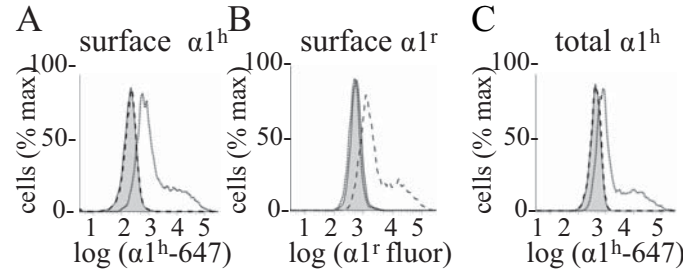
SUPPLEMENTAL FIGURE LEGENDS

Supplemental Figure 1: Species specificity of the anti $\alpha 1^h$ and $\alpha 1^r$ subunit antibodies. We transfected HEK293T cells with empty vector (negative control, shaded histograms), or 0.250 μg of $\beta 2$ and $\gamma 2$ subunit cDNA and hemizygous expression of either 0.125 μg of $\alpha 1^h$ (dotted line) or 0.125 μg of $\alpha 1^r$ (dashed line). We stained surface (A-B) or total (C) receptors with the anti $\alpha 1^h$ antibody (A, C) or anti $\alpha 1^r$ antibody (B) and quantified antibody staining by flow cytometry. These data demonstrated that these antibodies were species specific; staining of the $\alpha 1^h$ subunit by the anti $\alpha 1^r$ antibody or staining of the $\alpha 1^r$ subunit by the anti $\alpha 1^h$ antibody accounted for $0 \pm 0.4\%$ that of specific staining ($N \geq 3$).

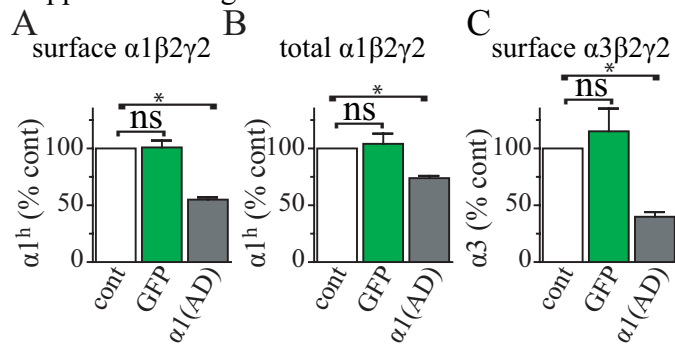
Supplemental Figure 2: Effect of the transfection of the pmaxGFP plasmid on $\alpha 1\beta 2\gamma 2$ and $\alpha 3\beta 2\gamma 2$ receptor expression. We transfected HEK293T cells with hemizygous $\alpha 1^h\beta 2\gamma 2$ (A, B) or wild type $\alpha 3\beta 2\gamma 2$ (C) receptors and 2 μg of either empty plasmid (control), or the pmaxGFP, or $\alpha 1(\text{AD})^r$ plasmids ($N \geq 3$). Surface (A, C) and total (B) $\alpha 1^h$ (A-B) or $\alpha 3$ subunit expression was determined by flow cytometry using anti $\alpha 1^h$ -647 or anti $\alpha 3$ subunit antibodies. The bar graphs depict the mean specific $\alpha 1^h$ -647 or $\alpha 3$ subunit fluorescence normalized to that of control samples. While the $\alpha 1(\text{AD})^r$ subunit caused significant reductions in $\alpha 1^h$ and $\alpha 3$ subunit expression ($P < 0.004$), transfection of the pmaxGFP plasmid did not alter the expression of either of these wild type receptors ($P > 0.513$).

Supplemental Figure 3: Effect of the $\alpha 1(\text{AD})$ subunit on surface expression of the TGF^{HA} protein. We transfected HEK293T cells with wild type $\alpha 1\beta 2\gamma 2$ receptors in addition to 0.250 μg of cDNA encoding TGF^{HA} and with or without 2 μg of the cDNA encoding the $\alpha 1(\text{AD})$ subunit. We performed flow cytometry using an anti-HA-647 antibody. A sample histogram is shown in panel A with negative control cells depicted as a shaded histogram, samples transfected in the absence of $\alpha 1(\text{AD})$ shown with the solid line and samples transfected with $\alpha 1(\text{AD})$ depicted in a dashed line. Quantification (B) demonstrated that the $\alpha 1(\text{AD})$ subunit did not reduce expression of the TGF^{HA} protein ($116 \pm 10\%$; $P = 0.169$; $N = 5$).

Supplemental Figure 1



Supplemental Figure 2



Supplemental Figure 3

