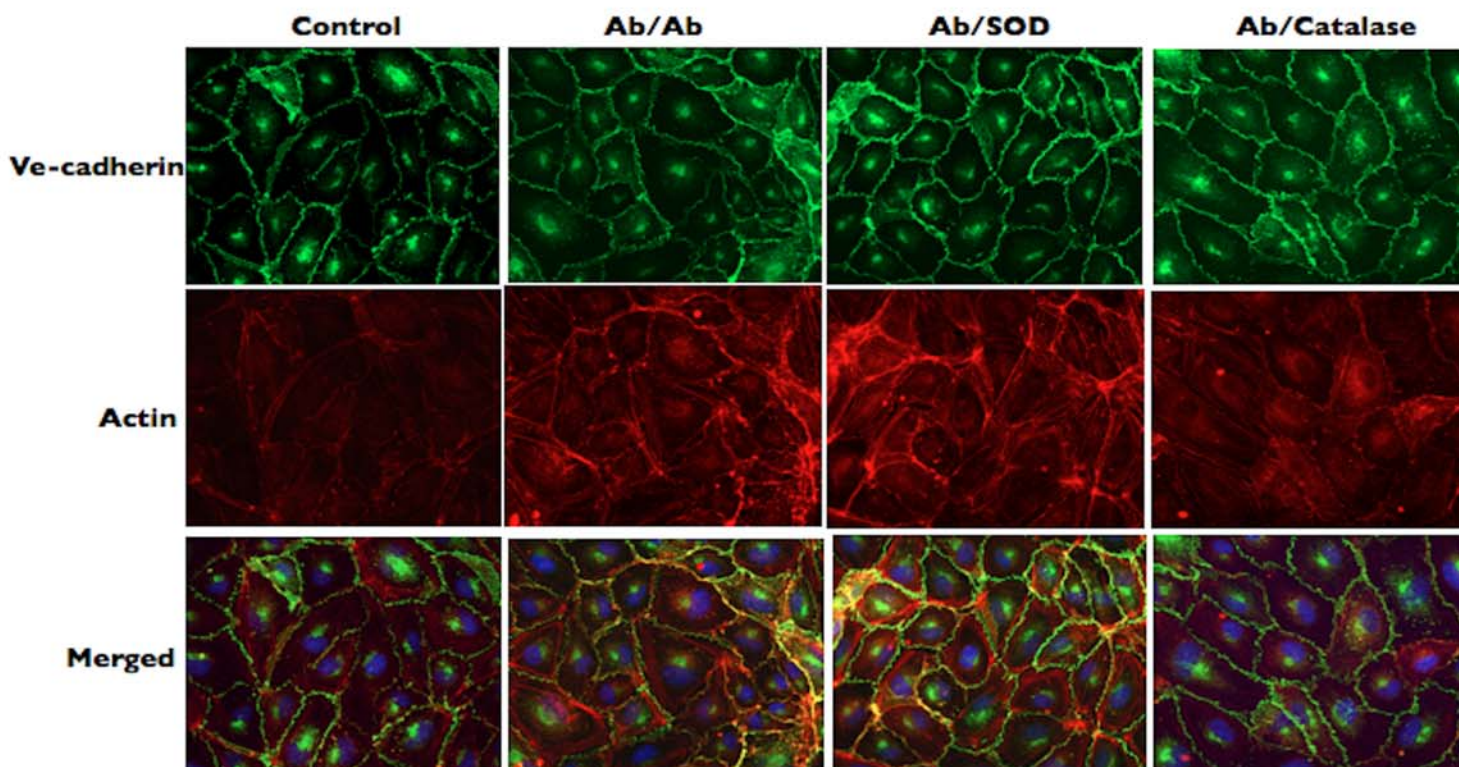


Catalase and SOD conjugated with PECAM antibody distinctly alleviate abnormal endothelial permeability caused by exogenous ROS and vascular endothelial growth factor

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**Supplemental Figure 1. Treatment of anti-PECAM-1 Ab (Ab) conjugates does not impair the basal endothelial barrier integrity.** Effect of conjugates on integrity of the endothelial adhesion junctional complex. Confluent HUVECs, grown on gelatin-coated glass coverslips, were treated with control, Ab/Ab, Ab/SOD and Ab/catalase conjugates (100  $\mu\text{g}/\text{ml}$ ) for 1 hour. Cell were then washed, fixed and stained with goat anti-VE-cadherin antibody followed by Alexa Fluor 488 conjugated anti-goat (shown as green). F-actin was stained with Alexa-594-phalloidin (shown as red). Images were taken using fluorescence microscope with a Plan Apo X 40/1.0 oil objective. HUVECs treated with drug-free Ab/Ab conjugates exhibited intact cell-cell adhesion junction, as evidenced by contiguous distribution of VE-cadherin at cell-cell border. F-actin content was increased in HUVECs treated with Ab/Ab, Ab/Catalase and Ab/SOD conjugates, compared with that in non-conjugate-treated cells.

**Supplemental Figure 1**