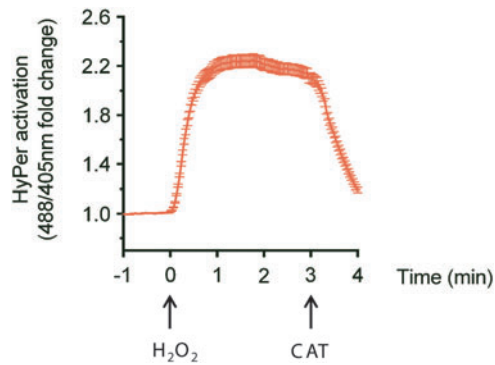


Supplementary Data



SUPPLEMENTARY FIG. S1. HyPerCyto detects mainly H₂O₂ imported through the plasma membrane. Addition of extracellular catalase (CAT, 5000 U/ml) after H₂O₂ exposure causes the rapid reduction of *HyPerCyto* by cytosolic antioxidant systems, indicating that continuous entry of exogenous H₂O₂ is needed to sustain reoxidation of the sensor. These data also indicate that most if not all *HyPeroxidation* depends on exogenously added H₂O₂. The data represent the mean fold changes of the 488/405 nm ratio measured by confocal laser scanning, plotted against time \pm SEMs.