**Table S1. Parameters of fluorescence recovery after photobleaching (FRAP) at the apical plasma membrane of growing pollen tubes for ANX1-YFP in different backgrounds.**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Genotype | R2 (curve fit) | I0 | IInf | 1/2 | I10sec | Growth rate (m min-1) | PTs |
| ANX1-YFP in a*nx1 anx2* | 0.9 ± 0.05 | 0.01 ± 0.03 | 0.966 ± 0.15 | 11.27 ± 3.42 | 0.47 ± 0.09 | 4.02 ± 1.41 | 18 |
| ANX1-YFP in WT, #1 | 0.96 ± 0.03 \*\* | 0.1 ± 0.07 | 1 ± 0.1 | 9.78 ± 3.68 | 0.57 ± 0.1 \*\* | 1.34 ± 0.68 \*\* | 17 |
| ANX1-YFP in WT, #4 | 0.94 ± 0.05 \* | 0.09 ± 0.1 | 0.97 ± 0.09 | 9.3 ± 3.6 | 0.57 ± 0.13 \* | 1.78 ± 0.53 \*\* | 20 |
| ANX1-YFP in *rbohH rbohJ* | 0.73 ± 0.13 \*\* | 0.01 ± 0.03 | 0.87 ± 0.18 | 10.43± 5.11 | 0.45 ± 0.09 | 2.63 ± 1.53 \*\* | 23 |

Experimental data for relative fluorescence intensity recovery at time t was fitted with the exponential equation:

I(t)=I0+(Iinf –I0)\*(1-2(-t/ 1/2))

where I0 is the relative fluorescence right after photobleaching, Iinf is the maximum relative recoverable intensity and 1/2 is the time when half of the recoverable fluorescence is recovered. Because 1/2 for all genotypes was around 10 sec, we calculated and compared the relative intensity recovery 10 sec after photobleaching.

\*\* and \* denotes statistical significance at P<0.01and P<0.05, respectively, compared to the complemented line, using a two-tailed equal variance Student t-Test. Averages are shown ± standard error.