

Phospholipase A₂β mediates light-induced stomatal opening in *Arabidopsis*

Jiyoung Seo, Hyoung Yool Lee, Hyunju Choi, Yunjung Choi, Yuree Lee, Yong-Woo Kim, Stephen Beungtae Ryu, and Youngsook Lee

Supplementary Data

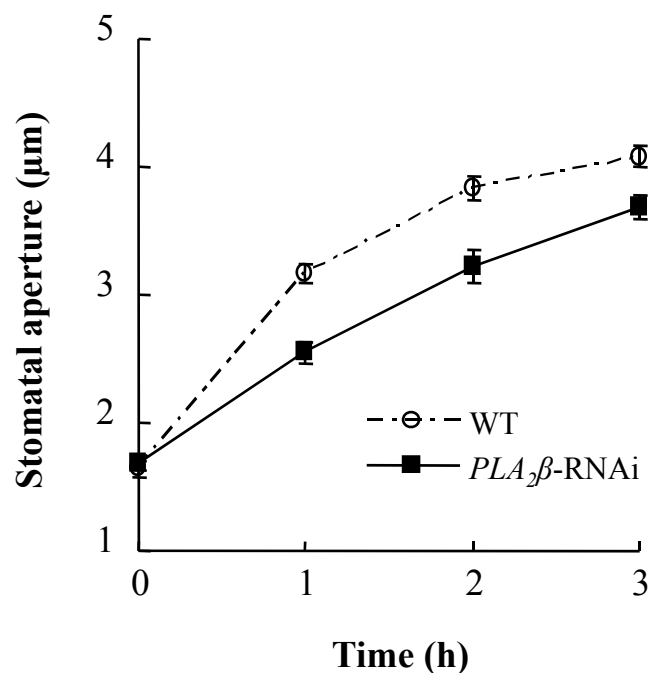


Figure S1. Stomatal opening of *PLA₂β*-silenced and wild-type plants induced by 90 μmol m⁻² s⁻¹ white light.

Leaves were floated on a solution containing 10 mM KCl and 30 mM Mes-KOH (pH 6.1) while illuminated with white light (90 μmol m⁻² s⁻¹) for 3 h. Note that *PLA₂β* RNAi stomata open less than wild type stomata in response to light. Values represent the means ± standard error (SE) of n=120-146 stomata from three independent experiments.

Supplementary Data

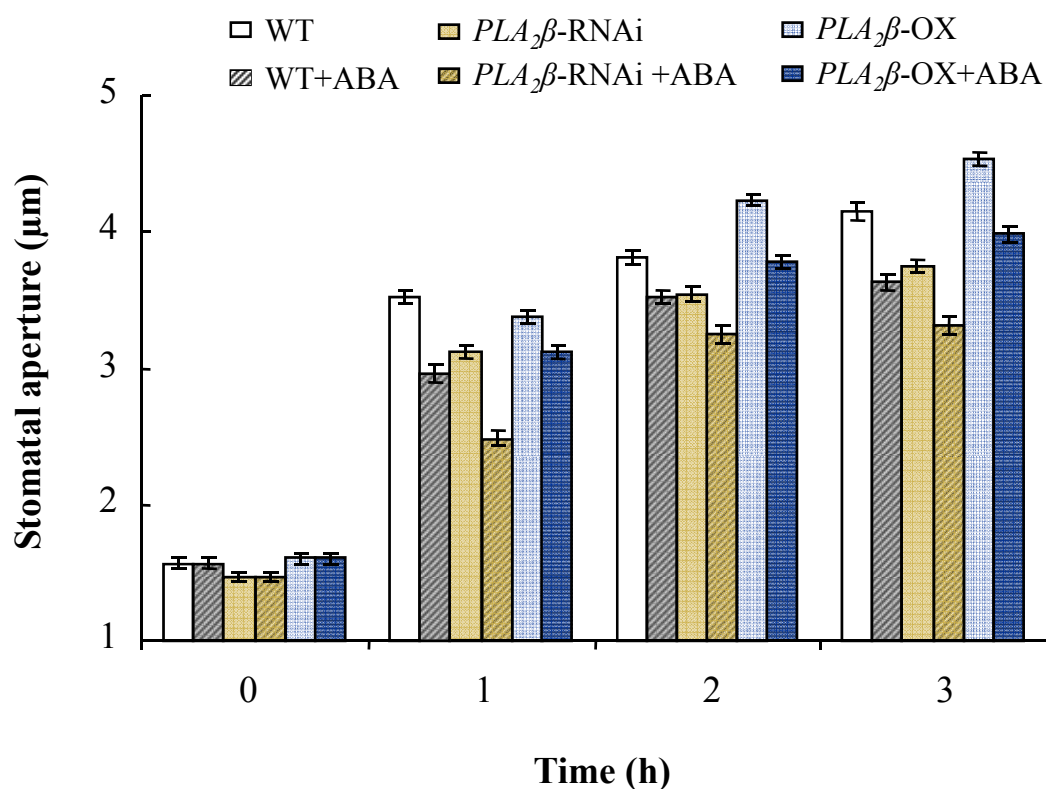


Figure S2. Effect of ABA on light-induced stomatal opening in wild-type and $PLA_2\beta$ mutant plants.

Stomatal opening was measured before exposure to light, and then again at 1 h intervals after exposure to light in media supplemented with or without 1 μ M ABA. Values represent the means \pm SE of three independent experiments. n=130-192. Note that the difference in light-induced opening between $PLA_2\beta$ mutant plants and the wild type plants is maintained even in the presence of ABA in the medium.