



**Figure 4**

Protein composition in rice leaves grown under different light conditions. (a) showed the results of the western blot analysis targeting the thylakoid membrane protein. Each protein sample was loaded on a Chl basis (1  $\mu\text{g}$ ). The proteins were extracted from biologically independent plants in each growth light condition ( $n = 3$ ), and each biological replicate was separately applied in a different lane. (b) shows a quantified Lhcas content shown in (a), which was plotted against the growth light intensity where each plant was grown. (c) shows a quantified PsaA and total LHCI content shown in (a). Total LHCI and PsaA content were also plotted against the growth light intensity. Those protein contents were normalized by the samples from LL-grown rice leaves. The quantified data are shown as means with standard errors ( $n = 3$ ). The different characters below the total LHCI values indicate the significant differences among the growth light conditions ( $p < 0.05$ ; Tukey-Kramer HSD test).