

Hua and Kao, Supplemental Figure 7

Supplemental Figure 7. Ubiquitination assay of total protein in S₂ pollen tube extract. (His)₆:Ub(K48R), expressed and purified from E. coli BL21(DE3)pLysS (Novagen), was used in the assay. The replacement of Lys-48 by Arg in Ub(K48R) blocked the formation of poly ubiquitin chains but still allowed the attachment of mono ubiquitin units to target proteins. Five micrograms of S₂ pollen tube extract were incubated in 30 µL ubiquitin reaction buffer (50 mM Tris-HCl, pH 7.4, 2 mM ATP, 2 mM DTT, 5 mM MgCl₂, ~4 µg creatine phosphokinase [Calbiochem], 10 mM creatine phosphate [Calbiochem], 1 mM PMSF) for 1 hr at 30°C in the presence or absence of 30 μ g of (His)₆:Ub(K48R). The reactions were stopped by the addition of 7 μ L 5 × SDS reducing sample buffer and subsequent heating at 95° C for 5 min. The samples were analyzed by immunoblotting using an anti-(His)₆ tag antibody. The strong smear signals detected by the antibody indicate that many proteins in the pollen tube extract were ubiquitinated.