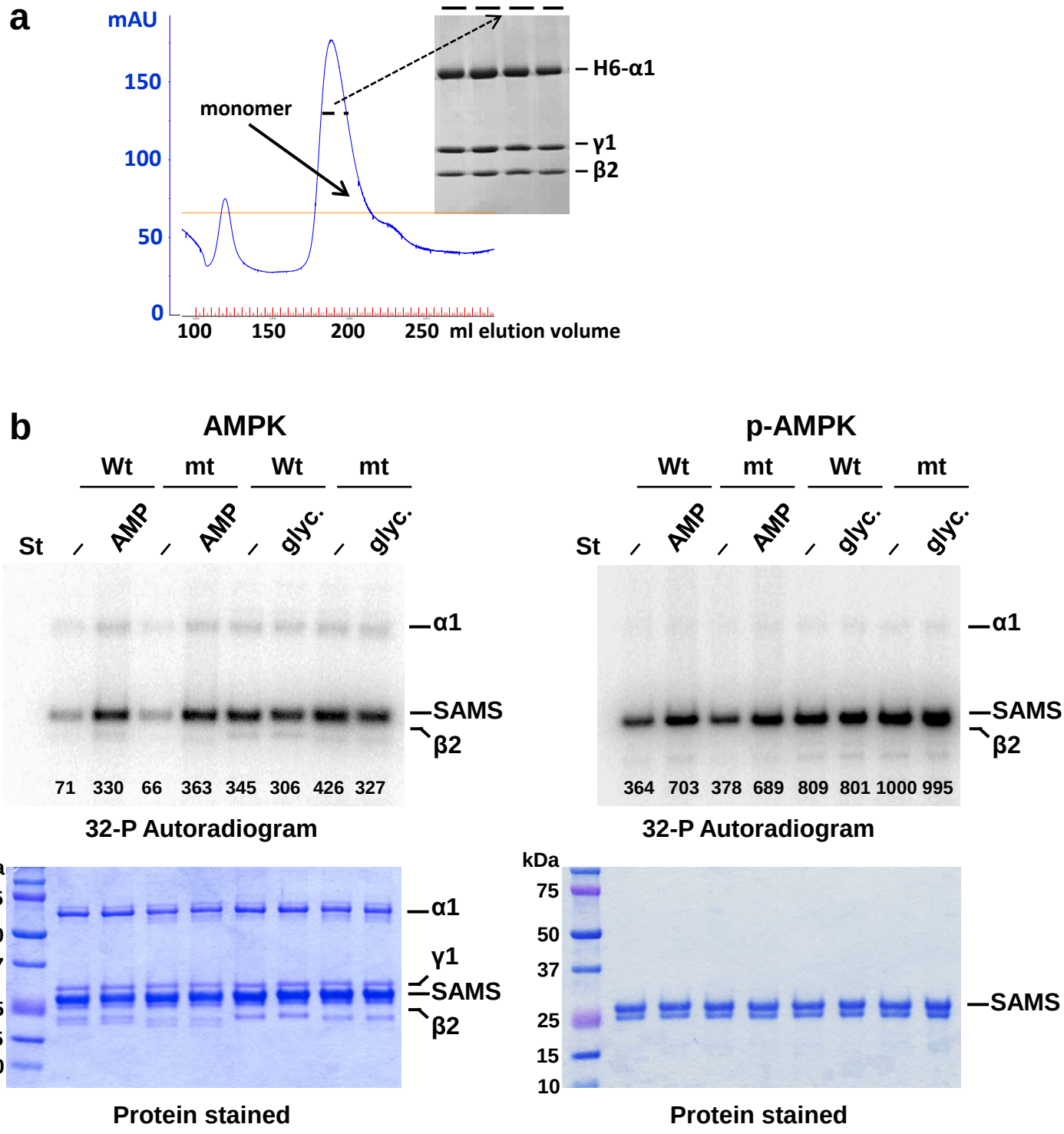

Supplementary Figure 1. AMPK α1(E471G/E474A/K476A) is active in subunit interactions, kinase activity, and modulation of kinase activity by adenine nucleotides and glycogen. (A) AMPK α1(E471G/E474A/K476A) forms a stochiometric complex with the β2- and γ1-subunits**. (B)** AMPK wildtype (WT) and AMPK α1(E471G/E474A/K476A) (mut) kinase activities in the presence and absence of allosteric modulators. Left panel:: Reaction with 1 µM non-phosphorylated WT or mutant human $\alpha_1\beta_2\gamma_1$ AMPK; right panel: reaction with 10 nM phosphorylated human $\alpha_1\beta_2\gamma_1$ AMPK. Numbers below lanes indicate relative densitometric values. Note that allosteric regulation is more pronounced in non-phosphorylated AMPK as previously described. St: Protein standards, with molecular weight indicated in kDa.