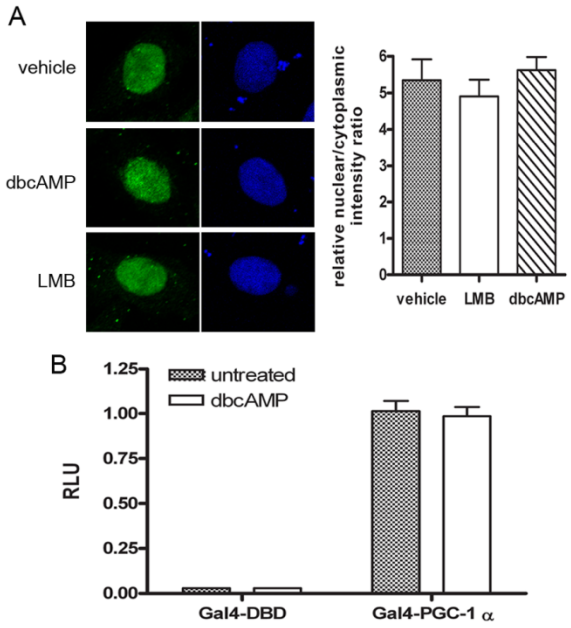

Fig. S1. The effect of LMB and dbcAMP on localization and transcriptional activity of PGC-1α. (A) Localization of PGC-1α is not affected by LMB and dbcAMP. CHO-K1cells were transiently (B) transfected with PGC-1α-HA and treated with vehicle, LMB, or dbcAMP for 1 h. Bar diagram of the relative ratios of nuclear to cytoplasmic fluorescence intensity of NT-PGC-1a is shown with the mean value and standard error. (B) Transcriptional coactivation assay. Gal4-DBD and Gal4-PGC-1α were cotransfected in CHO-K1 cells with a luciferase reporter containing Gal4 DNA binding sites and a renilla luciferase reporter. 24 h after transfection cells were treated with vehicle or dbcAMP. Luciferase activity was determined 48 h after transfection.

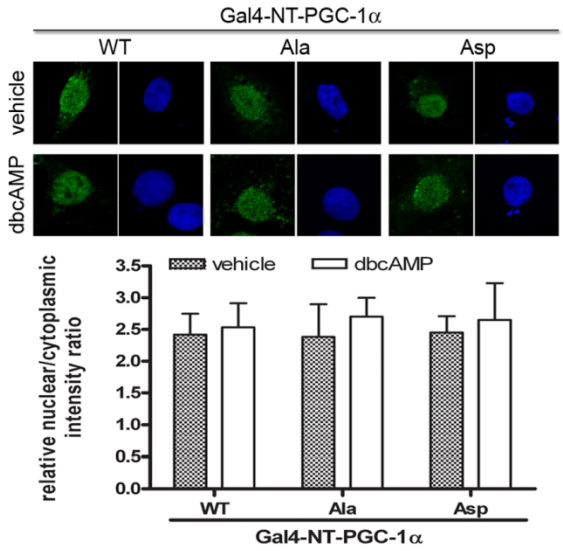

Fig. S2. Gal4-DBD fusion drives wild type and mutant NT-PGC-1α to the nucleus. CHO-K1 cells were transfected with Gal4-NT-PGC-1α, Gal4-NT-PGC-1α-S194A, S241A, T256A, and Gal4-NT-PGC-1α-S194D, S241D, T256D and treated with vehicle or dbcAMP. Bar diagram of the relative ratios of nuclear to cytoplasmic fluorescence intensity of NT-PGC-1a is shown with the mean value and standard error.