**Additional file 1**

**Figure S1. Bub3 interacts with DMAP1 during mitotic arrest.**

(A) HPDE cells expressing Flag-Bub3 were synchronized in interphase by thymidine double block (2 mM) or were synchronized in mitosis by nocodazole (200 nM) treatment for 16 h after releasing thymidine double block for 8 h (left panel). Cellular extracts subjected to immunoprecipitation with an anti-Flag antibody were analyzed by mass spectrometry. Bub3-interacting proteins identified by mass spectrometry were shown. (B)HPDE cells synchronized by thymidine double block (2 mM) were released for 8 h, followed by nocodazole (200 nM) treatment for 16 h (left panel), and cellular extracts were subjected to immunoprecipitation with an anti-Bub3 antibody. Immunoblotting analyses were performed using the indicated antibodies. (C) HPDE cells synchronized by thymidine double block (2 mM) were released for 8 h, followed by nocodazole (200 nM) treatment for 16 h (left panel), and cellular extracts were subjected to immunoprecipitation with an anti-Bub3 antibody. Immunoblotting analyses were performed using the indicated antibodies. (D) HPDE cells synchronized by thymidine double block (2 mM) were released for 8 h, followed by nocodazole (200 nM) treatment for 16 h and release for 6 h, and cellular extracts collected at indicated time points were subjected to immunoprecipitation with an anti-Bub3 antibody. Immunoblotting analyses were performed using the indicated antibodies. (E)HPDE cells synchronized by thymidine double block (2 mM) were released for 8 h, followed by nocodazole (200 nM) treatment for 16 h (left panel), and cellular extracts were subjected to immunoprecipitation with an anti-DMAP1 antibody. Immunoblotting analyses were performed using the indicated antibodies.(F)HPDE cells were transfected with or without DNMT1 siRNA duplex. Cellular extracts were subjected to immunoprecipitation with an anti-Bub3 antibody. (G) PANC-1 and SW1990 cells expressing Flag-Bub3 were synchronized in interphase by thymidine double block (2 mM) or were synchronized in mitosis by nocodazole (200 nM) treatment for 16 h after releasing thymidine double block for 8 h (left panel). The efficiency of synchronization was examined by immunoblotting analyses of H3 pS10 or flow cytometry analyses. (H) PANC-1 cells were synchronized by thymidine double block (2 mM) and were released for 8 h, followed by nocodazole (200 nM) treatment for 16 h (left panel). PANC-1 cells were treated with SU6656 (shown as ‘SU’) (10 M) for indicated length of time post nocodazole treatment for 16 h. Cellular extracts were subjected to immunoblotting analyses with indicated antibodies.