SUPPLEMENTARY DATA

Expression of CDK4, CDK6, cyclin D2 and EZH2 are commonly upregulated in uveal melanoma cells

As described above, miR-124a was frequently downregulated in uveal melanoma. We then analyzed the expression of miR-124a targets - CDK4, CDK6, cyclin D2 and EZH2 in uveal melanoma. Western blot analysis was carried out to detect the expression of these four targets in normal uveal melanocytes as well as in uveal melanoma cell lines. Cell lysates were prepared and used for Western blot analysis with CDK4, CDK6, cyclin D2 and EZH2 antibodies. GAPDH was used as an internal control. CDK4, CDK6, and cyclin D2 was significantly upregulated in all uveal melanoma cells examined in comparison with normal uveal melanocytes (Supplementary Figure 1). In terms of EZH2, it was upregulated in uveal melanoma cells M21, M23 and SP6.5 but downregulated in M17 cells. The lower levels of protein in M17 cells imply possibly a complex regulatory mechanism besides that of miR-124a.
Supplementary Figure 1