



*Fig. S1.* (a, b) Results of immunoblotting. (a) In immunoblotting of normal human epidermal extract, control pemphigus vulgaris (PV) serum reacted with the 160-kDa desmoglein (Dsg)1 and the 130-kDa Dsg3 (lane 1), control paraneoplastic pemphigus (PNP) sera reacted with the 210-kDa envoplakin and the 190-kDa periplakin (lane 2), and control BP serum reacted with the 230-kDa BP230 and the 180-kDa BP180 (lane 3). IgG (lane 4), but not IgA (lane 5), antibodies in the patient serum reacted relatively weakly with BP180. (b) Immunoblotting of concentrated culture supernatant of HaCaT cells. IgA antibodies in control linear IgA bullous dermatosis (LAD) serum (lane 1), but not normal control serum (lane 2), reacted with the 120-kDa LAD-1. IgG (lane 3), but not IgA (lane 4), antibodies in the patient serum reacted strongly with LAD-1.