3D-cultures of indicated cell types grown for 2 weeks at the air-liquid interphase. Note that in contrast to PG⁻/⁻ keratinocytes, β-catenin⁻/⁻ keratinocytes do not hyperproliferate, but show cornification defects as discussed previously (Posthaus, H. et al. *Journal of Cell Science* **115**, 4587-4597 (2002)).