Supplementary material to article by H. Li and H. Törmä “Retinoids Reduce Formation of Keratin Aggregates in Heat-stressed Immortalized Keratinocytes from an Epidermolytic Ichthyosis Patient with a KRT10 Mutation”

Fig. S3. Keratin 10 (K10) co-localizes with proteins involved in proteasome-mediated degradation but the co-localizations are not enriched in keratin aggregates. Epidermolytic ichthyosis (EI) keratinocytes were stained for co-localization of K10 with chaperone-dependent E3 ubiquitin ligase C terminus of Hsc70-interacting protein (CHIP) (a, d), ubiquitin (b, e) and p-p38 (c, f) by in situ proximity ligation assay (PLA) (red) before (a–c) and after (d–f) heat stress, followed by counterstaining with the K10 antibody to detect keratin filaments and aggregates (green). Keratin 10 co-localized with CHIP, ubiquitin and p-p38 in the cytoplasm in control and heat-stressed cells. However, K10 aggregates (arrows) were not detected in close proximity to the PLA signals, not even after heat stress.