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This invention relates to the use, in a cosmetic composition, of a peppermint extract as an agent intended to increase the renewal of cells in the epidermis associated with a deficiency in the expression of NOTCH proteins in keratinocyte progenitor cells; in particular, for mature skin and/or skin exhibiting signs of dryness and of loss of firmness. The invention also relates to a care method for maintaining or regulating the renewal of the cells of the epidermis associated with said deficiency. The inventors note several studies that have converged to indicate cell signaling controlled by NOTCH proteins as essential for good skin repair and reportedly involved in the regulation of several phases of the wound healing process; especially in regulating angiogenesis during the production of the extracellular matrix, and in inflammation.