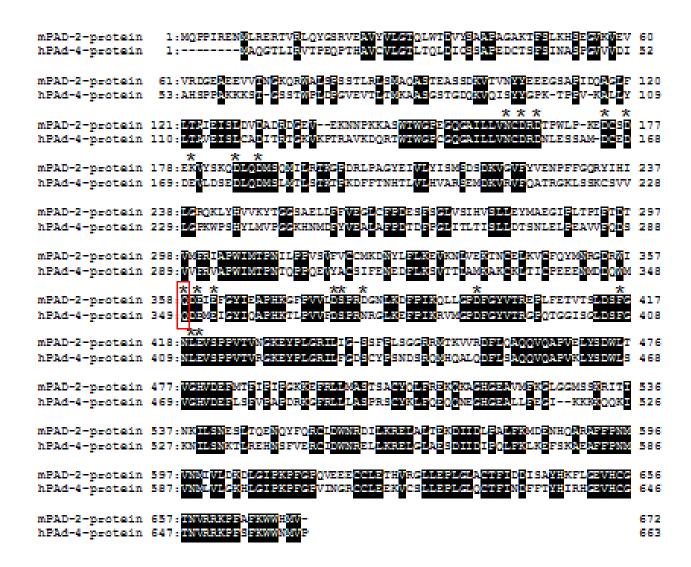
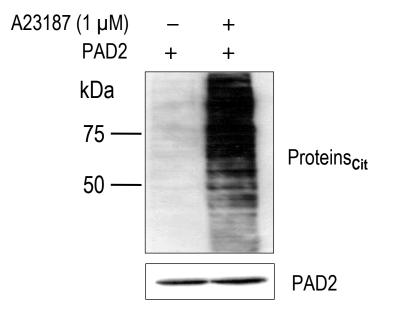
Supplemental Data-1



Amino acid sequence comparison between mouse PAD2 and human PAD4. The residues conversed in the two dones are highlighted in black. Amino acid residues for Ca²⁺ binding are labeled as *stars*. The mutation of Gln 358 (*red box*) with an Ala abolishes the communoprecipitation of PAD2 and IKK gamma (described in the main text).

Supplemental Data-2



PAD2-mediated citrullination in HEK 293 cells. Cells transfected with FLAG-tagged PAD2 were incubated with 1 µM calcium ionophore A23187 for 1 h. Protein citrullination was determined by immunoblotting total proteins from cell lysates with the anti-citrulline antibody. To determine PAD2 expression, a sister immunoblot membrane was probed with the anti-FLAG antibody.