



Fig. S1. CD4, CD8, TIA-1 and CD68 in peritumoural area of keratoacanthoma (KA) and squamous cell carcinoma (SCC). Paraffin-embedded tissue samples from patients with (A, C, E, G) KA and (B, D, F, H) SCC were deparaffinized and stained with (A, B) anti-CD4 Ab, (C, D) anti-CD8 Ab, (E, F) anti-TIA-1 Ab, or (G, H) anti-CD68 Ab. Sections were developed with 3,3'-diaminobenzidine tetrahydrochloride. (Original magnification (A–D)  $\times 100$ , (E–H)  $\times 200$ ) (KA:  $n=10$ , SCC:  $n=18$ ).



Table SI. Summary of the clones of the antibodies and the antibody retrieval methods

	Host species	Clone	Antigen retrieval	Secondary antibody
CD3	Mouse	PS1	Autoclave	Rabbit anti-mouse antibody
CD4	Mouse	1F6	Autoclave	Rabbit anti-mouse antibody
CD8	Mouse	C8/144B	Autoclave	Rabbit anti-mouse antibody
CD68	Mouse	KP1	Trypsin	Rabbit anti-mouse antibody
CD163	Mouse	10D6	Autoclave	Rabbit anti-mouse antibody
TIA-1	Mouse	TIA-1	Autoclave	Rabbit anti-mouse antibody
MMP-9	Rabbit	Polyclonal	Microwave	Goat anti-rabbit antibody
IL-27	Rabbit	Polyclonal	Autoclave	Goat anti-rabbit antibody
Foxp3	Rabbit	Polyclonal	Autoclave	Goat anti-rabbit antibody
pSTAT1	Rabbit	58D6	Microwave	Goat anti-rabbit antibody

Table SII. Summary of 10 cases of keratoacanthoma and 18 cases of well- or moderately-differentiated cutaneous squamous cell carcinoma

Case	Age, years/sex	Area	Immunosuppression
<i>Keratoacanthoma</i>			
1	90/F	Dorsal hand	No
2	44/M	Mandible	No
3	47/M	Mandible	No
4	81/M	Dorsal hand	No
5	84/F	Dorsal hand	No
6	87/M	Dorsal hand	No
7	57/M	Nose	No
8	84/M	Cheek	No
9	79/M	Ear	No
10	58/F	Cheek	No
<i>Squamous cell carcinoma</i>			
1	75/F	Eyelid	No
2	74/M	Cheek	No
3	69/F	Trunk	No
4	54/F	Scalp	No
5	73/F	Trunk	No
6	76/F	Dorsal hand	No
7	67/M	Scalp	No
8	74/M	Dorsal hand	No
9	92/M	Eyelid	No
10	88/F	Dorsal hand	No
11	75/F	Scalp	No
12	74/M	Cheek	No
13	83/F	Dorsal hand	No
14	81/M	Nose	No
15	55/F	Scalp	No
16	81/M	Dorsal hand	No
17	76/M	Cheek	No
18	77/F	Dorsal hand	No