Fig. S3

A

PBS control

TGF-β1 treatment

Control RNAi treatment

c-Ski RNAi treatment

B

| Treatment                        | IOD of c-Ski immunofluence |
|----------------------------------|----------------------------|
| PBS control                      | 1e+6                       |
| TGF-β1                           | 8e+5                       |
| Control RNAi treatment           | 6e+5                       |
| c-Ski RNAi treatment             | 4e+5                       |

**Significant difference**

***Highly significant difference***

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| Cases | Sex  | Age | Site      | Primary/recurrent | Tumor differentiation | The Ski expression |
|-------|------|-----|-----------|------------------|-----------------------|--------------------|
| 1     | male | 39  | buttock   | P                | low                   | 2+                 |
| 2     | female | 50  | thigh     | R                | high                  | 1+                 |
| 3     | male | 29  | Shoulder  | P                | low                   | 1+                 |
| 4     | male | 50  | chest     | R                | Moderate              | 2+                 |
| 5     | female | 65  | neck      | R                | low                   | 2+                 |
| 6     | female | 23  | chest     | R                | high                  | 1+                 |
| 7     | male | 50  | abdomen   | P                | high                  | -                  |
| 8     | male | 77  | back      | R                | low                   | 1+                 |
| 9     | female | 43  | abdomen   | R                | Moderate              | 2+                 |
| 10    | female | 38  | waist     | P                | high                  | 1+                 |
| 11    | male | 12  | back      | P                | low                   | 2+                 |
| 12    | male | 43  | head      | P                | high                  | -                  |
| 13    | female | 58  | back      | P                | Moderate              | 1+                 |
| 14    | male | 27  | abdomen   | R                | low                   | 1+                 |
| 15    | male | 38  | Shoulder  | P                | low                   | 1+                 |
| 16    | female | 22  | abdomen   | R                | Moderate              | 1+                 |
| 17    | male | 53  | abdomen   | R                | Moderate              | 3+                 |
|   | Gender | Age | Location   | Side | Type   | Severity |
|---|--------|-----|------------|------|--------|----------|
| 18| female | 37  | abdomen    | P    | low    | 1+       |
| 19| male   | 36  | neck       | R    | low    | 2+       |
| 20| male   | 43  | abdomen    | R    | high   | 1+       |
| 21| female | 27  | arm        | R    | Moderate | 1+      |
| 22| male   | 26  | leg        | P    | low    | 3+       |
| 23| female | 61  | chest      | R    | low    | 3+       |
| 24| male   | 59  | abdomen    | P    | Moderate | 2+      |
| 25| male   | 70  | buttock    | P    | low    | 2+       |
Table SII  Multivariate logistic regression analysis

| Model Summary       | Cox & Snell square | Nagelkerke square | McFadden square |
|---------------------|--------------------|-------------------|-----------------|
|                     | 0.489              | 0.557             | 0.319           |

| Likelihood Ratio Test | chi square | Df | p    |
|-----------------------|------------|----|------|
| Age                   | 0.050      | 2  | 0.975|
| Sex                   | 2.117      | 2  | 0.347|
| Primary or Recurrence | 1.796      | 2  | 0.407|
| The expression level of Ski | 13.433    | 2  | 0.001|

| Variables in the equation | Wald | Df | p    |
|---------------------------|------|----|------|
| Poor differentiation      |      |    |      |
| Age                       | 0.025| 1  | 0.874|
| Sex                       | 1.622| 1  | 0.254|
| Primary or Recurrence     | 1.558| 1  | 0.261|
| The expression level of Ski | 611.931 | 1 | 0    |
| Moderate differentiation  |      |    |      |
| Age                       | 0.047| 1  | 0.823|
| Sex                       | 1.668| 1  | 0.693|
| Primary or Recurrence     | 1.596| 1  | 0.660|
| The expression level of Ski | -     | 1  | -    |

Note:  a:Reference category(Well differentiation).